

# Product Datasheet

## Integrin beta 7 Antibody (FIB27) [Alexa Fluor® 350] NBP2-81087AF350

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-81087AF350**

Integrin beta 7 Antibody (FIB27) [Alexa Fluor® 350]

| Product Information     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit Size               | 0.1 ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Concentration           | Please see the vial label for concentration. If unlisted please contact technical services.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Storage                 | Store at 4C in the dark.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Clonality               | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Clone                   | FIB27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Preservative            | 0.05% Sodium Azide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Isotype                 | IgG Kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Conjugate               | Alexa Fluor 350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Purity                  | Protein A purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Buffer                  | 50mM Sodium Borate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Product Description     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Host                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene ID                 | 3695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Symbol             | ITGB7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Species                 | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity/Sensitivity | FIB27 binds specifically to both human and mouse Integrin beta 7 at epitope region DI on which is involved in all $\alpha 4\beta 7$ -mediated adhesion events. Does not compete with DAKT32 for binding. FIB27 blocks LS722-induced TK1 cell aggregation (mAb LS722 is an activating anti- $\alpha 4\beta 7$ antibody and induces aggregation via an $\alpha 4\beta 7$ -dependent pathway). Integrin beta 7 is one subunit is a heterodimer which makes up an intergin molecule. In the mouse beta-7 is selectively found on the majority of mature lymphocytes, whereas a small subpopulation of thymocytes and bone marrow cells express beta-7. Beta-7 is also expressed in variable amounts in CD4 T memory cells. Integrin molecules mediate cell-cell and cell-extracellular matrix adhesion and are involved in lymphocyte homing, leukocyte recruitment to inflammatory sites, myogenesis, hemopoiesis, and melanoma metastasis. |
| Immunogen               | FIB27 was prepared by immunizing rats with TK1 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



**Notes**

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**Product Application Details**

|                              |                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------|
| <b>Applications</b>          | Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Block/Neutralize |
| <b>Recommended Dilutions</b> | Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Block/Neutralize |
| <b>Application Notes</b>     | Optimal dilution of this antibody should be experimentally determined.                         |

**Images**

Integrin beta 7 Antibody (FIB27) [Alexa Fluor® 350] [NBP2-81087AF350]  
 - Vial of Alexa Fluor 350 conjugated antibody. Alexa Fluor 350 is optimally excited at 346 nm by the UV laser (350 or 355 nm) and has an emission maximum of 442 nm.





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### **Products Related to NBP2-81087AF350**

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|                    |                                                        |
|--------------------|--------------------------------------------------------|
| H00003695-P01-10ug | Recombinant Human Integrin beta 7 GST (N-Term) Protein |
| DVE00              | VEGF [HRP]                                             |
| NBL1-12076         | Integrin beta 7 Overexpression Lysate                  |
| NB100-56566        | TLR4 Antibody (76B357.1) - BSA Free                    |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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