

# Product Datasheet

## **Semaphorin 4D/CD100 Antibody (SEMA4D/933) [Janelia Fluor® 646] NBP2-47796JF646**

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-47796JF646**

Semaphorin 4D/CD100 Antibody (SEMA4D/933) [Janelia Fluor® 646]

| 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               | SEMA4D/933                                                                                  |
| Preservative        | 0.05% Sodium Azide                                                                          |
| Isotype             | IgG1 Kappa                                                                                  |
| Conjugate           | Janelia Fluor 646                                                                           |
| Purity              | Protein A or G purified                                                                     |
| Buffer              | 50mM Sodium Borate                                                                          |

| Product Description     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene ID                 | 10507                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Symbol             | SEMA4D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Species                 | Human, Primate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity Notes        | Non-Human primates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specificity/Sensitivity | Recognizes a homodimeric protein comprised of 50kDa subunits, identified as CD100. It is expressed on majority of haemopoietic cells (B, T, NK and myeloid cells) and is absent from bone marrow, erythrocytes, eosinophils and endothelial cells. Its expression is increased after PHA-activation. CD100 was shown to associate with different partner molecules in T cells such as CD45, a key molecule with protein tyrosine phosphatase activity involved in T-cell transduction, and a Serine kinase. It plays a role in homotypic cell adhesion and in T cell activation. |
| Immunogen               | Human recombinant Semaphorin 4D/CD100 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Notes                   | Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Product Application Details |                                                                            |
|-----------------------------|----------------------------------------------------------------------------|
| Applications                | Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunofluorescence |
| Recommended Dilutions       | Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunofluorescence |
| Application Notes           | Optimal dilution of this antibody should be experimentally determined.     |





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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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

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