

# Product Datasheet

## CD38 Antibody (HB7) [Allophycocyanin] NBP2-52696APC

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-52696APC**

CD38 Antibody (HB7) [Allophycocyanin]

| 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                       | HB7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Preservative                | 0.05% Sodium Azide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Isotype                     | IgG1 Kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Conjugate                   | Allophycocyanin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Purity                      | Protein A purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Buffer                      | PBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Product Description         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Host                        | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene ID                     | 952                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Symbol                 | CD38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Species                     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Reactivity Notes            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specificity/Sensitivity     | This antibody binds to an epitope between amino acids 273-285 of human CD38, an approximately 45 kDa type II transmembrane protein, expressed on essentially all pre-B lymphocytes, plasma cells, and thymocytes. Also present on activated T lymphocytes, natural killer (NK) lymphocytes, myeloblasts, and erythroblasts. Bimodally expressed during B cell development, modulating from high in immature cells to low in intermediate ones and back to high on mature B cells. This antibody competes with clone AT13/5 (Ab00289) (Ellis 1995). |
| Immunogen                   | This CD38 antibody (HB7) was developed against viable cells ( $1 \times 10^7$ ) of the human cell line, BJAB (Human Burkitt lymphoma B cell line), which were injected intraperitoneally into 8-week-old BALB/c mice.                                                                                                                                                                                                                                                                                                                              |
| Product Application Details |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Applications                | Western Blot, Flow Cytometry, CyTOF-ready                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Recommended Dilutions       | Western Blot, Flow Cytometry, CyTOF-ready                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Application Notes           | Optimal dilution of this antibody should be experimentally determined.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



## Images

CD38 Antibody (HB7) [Allophycocyanin] [NBP2-52696APC] - Vial of APC conjugated antibody. APC is optimally excited at 650 nm by the Red laser (633 or 640 nm) and has an emission maximum of 660 nm.





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### **Products Related to NBP2-52696APC**

|                   |                                                      |
|-------------------|------------------------------------------------------|
| IC002A            | Mouse IgG1 Isotype Control (11711) [Allophycocyanin] |
| NBP2-52339-0.05mg | Recombinant Human CD38 His Protein                   |
| 210-TA-005        | TNF-alpha [Unconjugated]                             |
| 2404-AC-010       | CD38 [Unconjugated]                                  |

### **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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