

# Product Datasheet

## **B220/CD45R Antibody (F10-89-4) - Azide and BSA Free NBP2-54455-100ug**

Unit Size: 100 ug

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-54455-100ug**

B220/CD45R Antibody (F10-89-4) - Azide and BSA Free

| Product Information     |   |
|-------------------------|---|
| Unit Size               | 100 ug  |
| Concentration           | 1 mg/ml   |
| Storage                 | Store at -20 to -80C. Avoid freeze-thaw cycles. |
| Clonality               | Monoclonal                                      |
| Clone                   | F10-89-4  |
| Preservative            | No Preservative                                 |
| Isotype                 | IgG2a Kappa                                     |
| Purity                  | Protein A or G purified                         |
| Buffer                  | 10 mM PBS                                       |
| Target Molecular Weight | 200 kDa   |

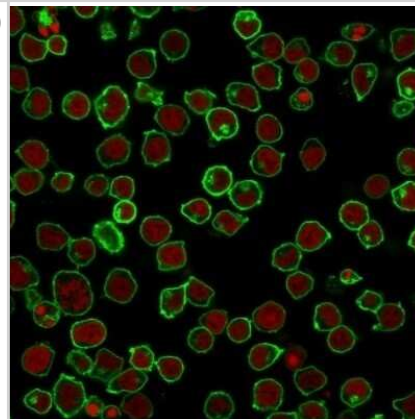
| Product Description     |  |
|-------------------------|--|
| Description             | 1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-53175).<br><br>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.  |
| Host                    | Mouse  |
| Gene ID                 | 5788   |
| Gene Symbol             | PTPRC  |
| Species                 | Human  |
| Marker                  | B-Cell Marker  |
| Specificity/Sensitivity | CD45R, also designated CD45 and PTPRC, has been identified as a transmembrane glycoprotein, broadly expressed among hematopoietic cells. Multiple isoforms of CD45R are distributed throughout the immune system according to cell type. These isoforms arise because of alternative splicing of exons 4, 5, and 6. The corresponding protein domains are characterized by the binding of monoclonal antibodies specific for CD45RA (exon 4), CD45RB (exon 5), CD45RC (exon 6) and CD45RO (exons 4 to 6 spliced out). The variation in these isoforms is localized to the extracellular domain of CD45R, while the intracellular domain is conserved. CD45R functions as a phosphor-tyrosine phosphatase. Antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms. |
| Immunogen               | Human T-Lymphocytes (Uniprot: P08575)  |

| Product Application Details |   |
|-----------------------------|---|
| Applications                | Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready   |
| Recommended Dilutions       | Flow Cytometry 0.5 - 1 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 0.5 - 1 ug/ml, Immunohistochemistry-Paraffin 0.5 - 1.0 ug/ml, CyTOF-ready  |
| Application Notes           | Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. |

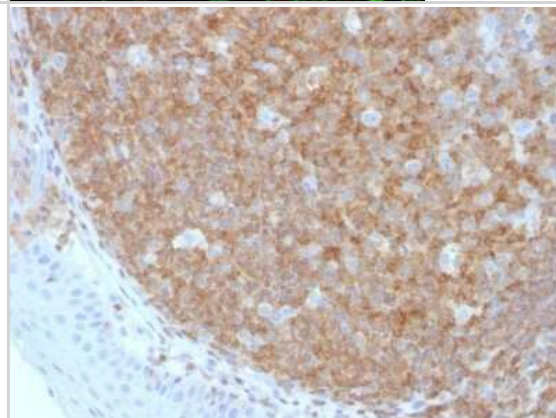


## Images

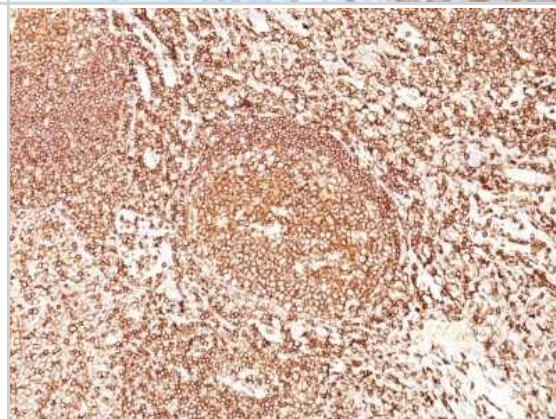
Immunocytochemistry/Immunofluorescence: B220/CD45R Antibody (F10-89-4) - Azide and BSA Free [NBP2-54455] - Immunofluorescence Analysis of PFA-fixed Jurkat cells labeling CD45 with B220/CD45R Antibody (F10-89-4) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Red Dot.



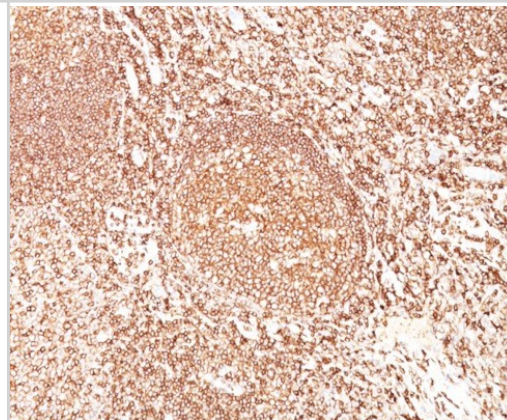
Immunohistochemistry-Paraffin: B220/CD45R Antibody (F10-89-4) - Azide and BSA Free [NBP2-54455] - Formalin-fixed, paraffin-embedded human Tonsil stained with B220/CD45R Antibody (F10-89-4).



Immunohistochemistry-Paraffin: B220/CD45R Antibody (F10-89-4) - Azide and BSA Free [NBP2-54455] - Human Tonsil stained with CD45 Monoclonal Antibody (F10-89-4).



Formalin-fixed, paraffin-embedded human tonsil stained with B220/CD45R antibody (F10-89-4).





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### **Products Related to NBP2-54455-100ug**

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|                  |   |
|------------------|---|
| HAF007           | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B          | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-96981-0.5mg | Mouse IgG2a Kappa Isotype Control (M2AK)                |
| 210-TA-005       | TNF-alpha [Unconjugated]                                |

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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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