

# Product Datasheet

## CD45 Antibody (135-4C5) - Azide and BSA Free NBP3-11434

Unit Size: 0.1 mg

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

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**NBP3-11434**

CD45 Antibody (135-4C5) - Azide and BSA Free

| Product Information     |   |
|-------------------------|---|
| Unit Size               | 0.1 mg  |
| Concentration           | 1 mg/ml   |
| Storage                 | Store at -20 to -80C. Avoid freeze-thaw cycles. |
| Clonality               | Monoclonal                                      |
| Clone                   | 135-4C5   |
| Preservative            | No Preservative                                 |
| Isotype                 | IgG2b Kappa                                     |
| Purity                  | Protein A or G purified                         |
| Buffer                  | 10 mM PBS                                       |
| Target Molecular Weight | 147 kDa   |

| Product Description     |  |
|-------------------------|--|
| Description             | <p>1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA &amp; azide. Also available at 200 ug/ml WITH BSA &amp; azide (NBP2-44863).</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.</p>   |
| Host                    | Mouse  |
| Gene ID                 | 5788   |
| Gene Symbol             | PTPRC  |
| Species                 | Human  |
| Marker                  | Leucocyte Marker   |
| Specificity/Sensitivity | <p>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. This monoclonal antibody reacts with all isoforms of CD45R expressed by all hematopoietic cells, except erythrocytes, having a higher level of expression on lymphocytes than on granulocytes (Workshop IV). Antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.</p> |
| Immunogen               | Stimulated human leukocytes  |

| Product Application Details |   |
|-----------------------------|---|
| Applications                | Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin  |
| Recommended Dilutions       | Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 0.5 - 1.0 ug/ml |

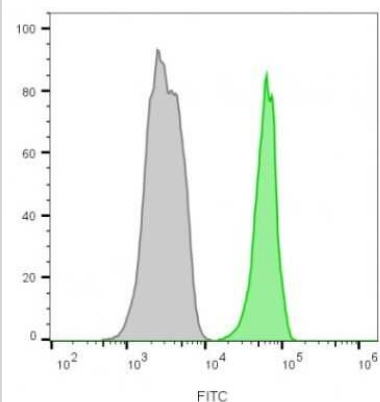


**Application Notes**

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**

Flow Cytometry: CD45 Antibody (135-4C5) - Azide and BSA Free [NBP3-11434] - Flow cytometry analysis of lymphocyte gated PBMCs unstained (gray) or stained with CD45 antibody (135-4C5) (green).





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP3-11434**

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|                   |   |
|-------------------|---|
| HAF007            | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B           | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-43317-0.5mg  | Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)    |
| NBP2-51591-0.02mg | Recombinant Human CD45 His Protein                      |

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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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