

# Product Datasheet

## CD45 Antibody (2B11 + PD7/26)

### NBP2-34287-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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Updated 7/16/2024 v.20.1

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**NBP2-34287-0.1mg**

CD45 Antibody (2B11 + PD7/26)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	2B11 + PD7/26
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa/IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	147 kDa

Product Description	
Description	<p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; azide at 1.0 mg/ml. (NBP2-34528)</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>Recognizes the CD45 leukocyte common antigen (LCA) family which is comprised of at least four isoforms of membrane glycoproteins (220, 205, 190, 180kDa) expressed on hematopoietic cell lines but absent on non-hematopoietic cell lines, normal and malignant non-hematopoietic tissues. The intracellular portions of these molecules have protein phosphatase activity and are involved in regulation of transmembrane signals. Antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms. A positive result with this monoclonal antibody is highly indicative of lymphoid or myeloid origin. Certain types of lymphoid neoplasms may lack CD45 (Hodgkin lymphoma, some T-cell lymphomas, and some leukemias) so its absence does not rule out a hematolymphoid tumor. This antibody is expressed almost exclusively by cells of hematopoietic lineage and is present in most benign and malignant lymphocytes as well as plasma cell precursors.</p>
Immunogen	Isolated neoplastic cells from T cell lymphoma (2B11); and human peripheral blood lymphocytes maintained in T cell growth factor (PD7/26)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml



**Application Notes**

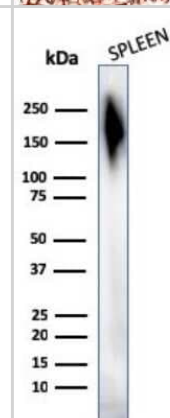
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

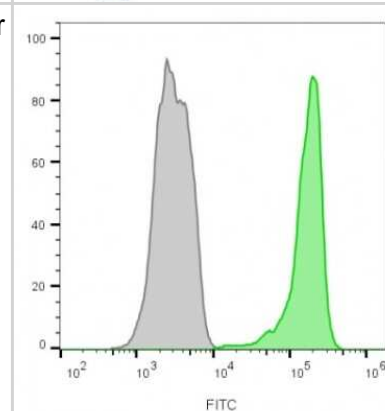
Formalin-fixed, paraffin-embedded human tonsil (20X) stained with CD45 antibody (2B11 + PD7/26) [NBP2-34287].



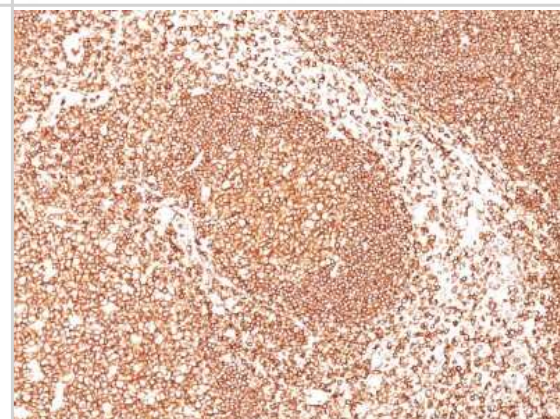
Western Blot Analysis of human Spleen tissue lysates using CD45 antibody (2B11 + PD7/26) [NBP2-34287]. Observed molecular weight ~200 kDa.



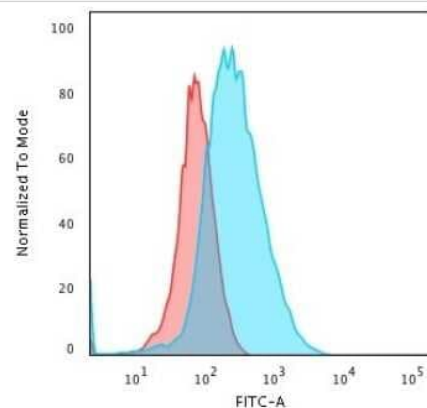
Flow cytometry analysis of lymphocyte-gated PBMCs unstained (gray) or stained with CF488A-labeled CD45 antibody (2B11 + PD7/26) (green).



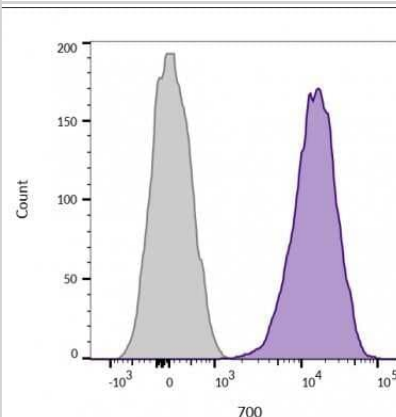
Formalin-fixed, paraffin-embedded human tonsil (10X) stained with CD45 antibody(2B11 + PD7/26) [NBP2-34287].



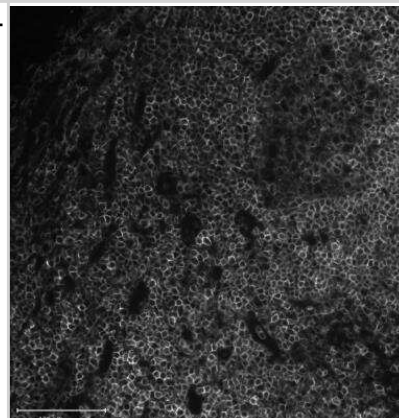
Flow Cytometric Analysis of PFA-fixed Jurkat cells using CD45 antibody (2B11 + PD7/26) [NBP2-34287] followed by Goat anti-Mouse-IgG-CF488 (Blue); Isotype Control (Red).



Flow Cytometric Analysis of live Jurkat cells unstained (grey) and using CD45 Mouse Monoclonal Antibody (2B11+PD7/26) conjugated with CF680 (purple).



Immunohistochemistry-Paraffin: CD45 Antibody (2B11 + PD7/26) [NBP2-34287] - Staining of human tonsil with Alexa Fluor 488 conjugate of CD45 Antibody (2B11 + PD7/26), pH 9 antigen retrieval. Image from verified customer review.



## Publications

Haddad TS, van den Dobbelsteen L, Öztürk SK et al. Pseudobudding: ruptured glands do not represent true tumor buds The Journal of pathology 2023-07-04 [PMID: 37403270] (IHC-P, Human)

Details:

1:100 dilution

KrAmer B, Nalin A, Ma F et al. Single-cell RNA sequencing identifies a population of human liver-type ILC1s Cell Reports 2023-01-01 [PMID: 36640314] (FLOW, Human)

Smith KD, Prince DK, Henriksen KJ Et al. Digital spatial profiling of collapsing glomerulopathy Kidney Int 2022-03-01 [PMID: 35227689] (IHC-P, Human)

Details:

Citation using the Azide and BSA Free version of this antibody.

Brady L, Kriner M, Coleman I et al. Inter- and intra-tumor heterogeneity of metastatic prostate cancer determined by digital spatial gene expression profiling Nature communications 2021-03-03 [PMID: 33658518] (IHC-P, Human)

Mulorz J, Spin JM, Beck HC et al. Hyperlipidemia does not affect development of elastase-induced abdominal aortic aneurysm in mice Atherosclerosis 2020-08-29 [PMID: 32949946] (IF/IHC, Human)





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### **Products Related to NBP2-34287-0.1mg**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-51591-0.02mg	Recombinant Human CD45 His Protein
210-TA-005	TNF-alpha [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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