

# Product Datasheet

## CD45 Antibody (MEM-28) - BSA Free NB500-319

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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**NB500-319**

CD45 Antibody (MEM-28) - BSA Free

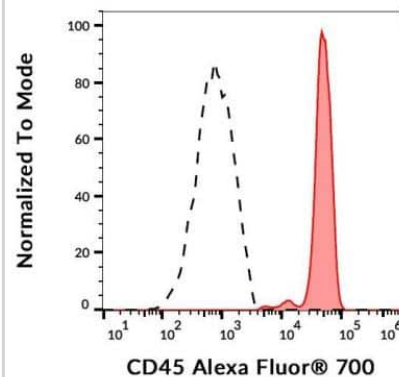
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	MEM-28
Preservative	15mM Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	Phosphate buffered saline (PBS), pH 7.4
Target Molecular Weight	147 kDa

Product Description	
Description	Novus Biologicals Mouse CD45 Antibody (MEM-28) - BSA Free (NB500-319) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-CD45 Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	5788
Gene Symbol	PTPRC
Species	Human, Equine (Negative)
Specificity/Sensitivity	CD45 Antibody (MEM-28) reacts with all alternative forms of human CD45 antigen (Leukocyte Common Antigen), a 180-220 kDa single chain type I transmembrane protein expressed at high level on all cells of hematopoietic origin, except erythrocytes and platelets. HLDA III; WS Code NL 833a
Immunogen	This CD45 Antibody (MEM-28) was prepared from Human thymocytes and T lymphocytes.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1 ug/ml, Flow Cytometry 1 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 10 ug/ml, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 1:200, CyTOF-ready
Application Notes	Western blot: Sample preparation: buffer with laurylmaltoside, 2 x non-reducing SDS, Non-reducing conditions. SDS-PAGE (6% separating gel). Immunohistochemistry-Paraffin: No pre-treatment of tissue sections is essential. Immunocytochemistry: paraformaldehyde fixation can be used. This antibody is CyTOF ready.

## Images

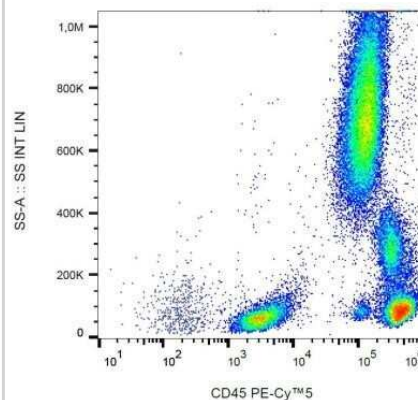
Flow Cytometry: CD45 Antibody (MEM-28) [NB500-319] - Staining of human peripheral blood lymphocytes with anti-human CD45 antibody (MEM-28) Alexa Fluor 700.



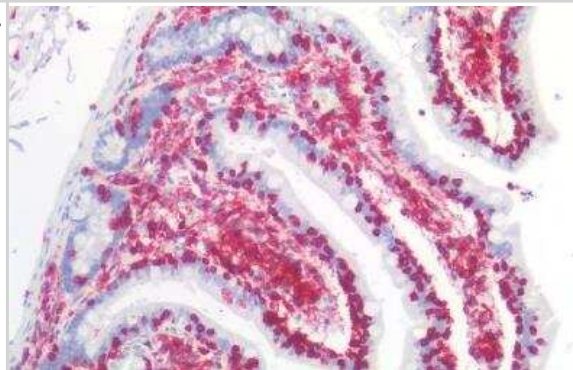
Immunocytochemistry/Immunofluorescence: CD45 Antibody (MEM-28) [NB500-319] - staining of human peripheral blood mononuclear cell using anti-human CD45 antibody (MEM-28) (green). DNA visualized by DAPI (blue).



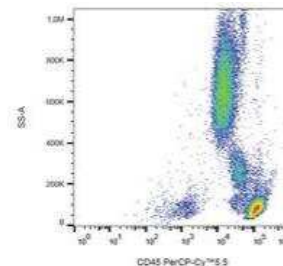
Flow Cytometry: CD45 Antibody (MEM-28) [NB500-319] - Staining of human peripheral blood cells with anti-human CD45 antibody (MEM-28) PE-Cy™5.



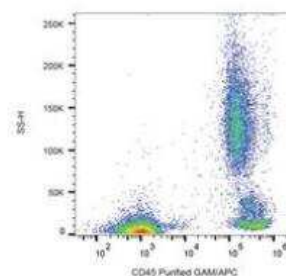
Immunohistochemistry-Paraffin: CD45 Antibody (MEM-28) [NB500-319] - Staining of human small intestine (paraffin-embedded sections) with CD45 antibody (MEM-28), 10 ug/ml.



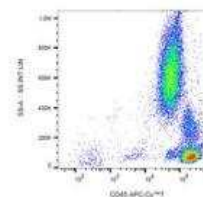
Flow Cytometry: CD45 Antibody (MEM-28) [NB500-319] - Surface staining of human peripheral blood cells with anti-human CD45 antibody (MEM-28) PerCP-Cy™5.5.



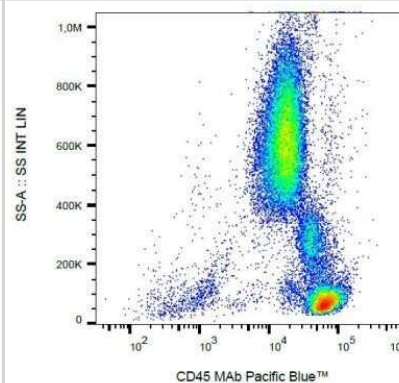
Flow Cytometry: CD45 Antibody (MEM-28) [NB500-319] - Surface staining of human peripheral blood cells with anti-human CD45 antibody (MEM-28) purified, GAM-APC.



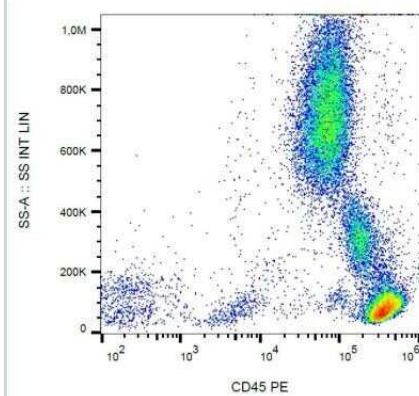
Flow Cytometry: CD45 Antibody (MEM-28) [NB500-319] - Surface staining of human peripheral blood cells with anti-human CD45 antibody (MEM-28) APC-Cy™7.



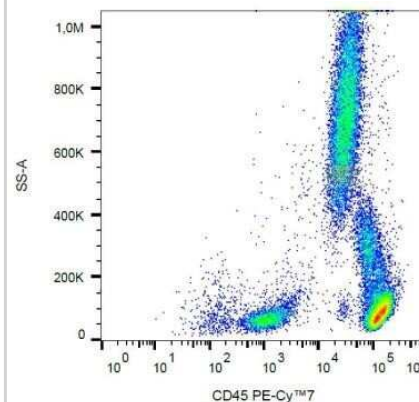
Flow Cytometry: CD45 Antibody (MEM-28) [NB500-319] - Staining of human peripheral blood cells with anti-human CD45 antibody (MEM-28) Pacific Blue™.



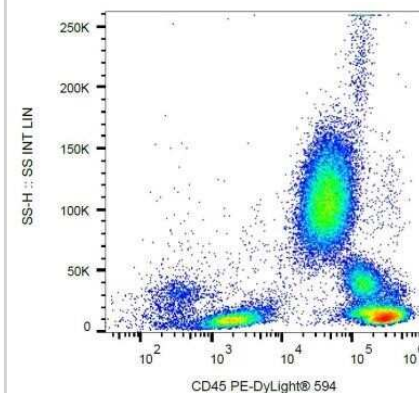
Flow Cytometry: CD45 Antibody (MEM-28) [NB500-319] - Staining of human peripheral blood cells with anti-human CD45 antibody (MEM-28) PE.



Flow Cytometry: CD45 Antibody (MEM-28) [NB500-319] - Staining of human peripheral blood cells with anti-human CD45 antibody (MEM-28) PE-Cy™7.



Flow Cytometry: CD45 Antibody (MEM-28) [NB500-319] - Staining of human peripheral blood cells with anti-human CD45 antibody (MEM-28) PE-DyLight (R) 594.



## Publications

Olah M, Menon V, Habib N et al. Single cell RNA sequencing of human microglia uncovers a subset associated with Alzheimer's disease Nature Communications 2020-11-30 [PMID: 33257666]

Liu Y, Zhou Y. Circ\_0087960 stabilizes KDM5B by reducing SKP2 mediated ubiquitination degradation and promotes osteogenic differentiation in periodontal ligament stem cells Regen Ther 2022-03-01 [PMID: 35229010] (FLOW, Human)

Details:

Citation using the FITC version of this antibody.

Taga M, Petyuk VA, White C et al. BIN1 protein isoforms are differentially expressed in astrocytes, neurons, and microglia: neuronal and astrocyte BIN1 are implicated in tau pathology Mol Neurodegener 2020-07-29 [PMID: 32727516] (IHC-P, Human)

Olah M, Menon V, Habib N et al. A single cell-based atlas of human microglial states reveals associations with neurological disorders and histopathological features of the aging brain bioRxiv 2018-06-11 (IF/IHC, Human)

Paul CD, Devine A, Bishop K et al. Human macrophages survive and adopt activated genotypes in living zebrafish. Sci Rep 2019-02-11 [PMID: 30741975] (ICC/IF, Human)

McMichael AJ et al. Leukocyte Typing III. Oxford University Press. 1987-01-01

Palchaudhuri R, Saez B, Hoggatt J et al. Non-genotoxic conditioning for hematopoietic stem cell transplantation using a hematopoietic-cell-specific internalizing immunotoxin. Nat [PMID: 27272386] (In vitro assay, Human)

Ilangumaran S, Briol A, Hoessli DC. CD44 selectively associates with active Src family protein tyrosine kinases Lck and Fyn in glycosphingolipid-rich plasma membrane domains of human peripheral blood lymphocytes Blood [PMID: 9573028]

Details:

Used the Allophycocyanin form of this antibody.

Horejsi V, Angelisova P, Bazil V et al. Monoclonal antibodies against human leucocyte antigens II Antibodies against CD45 (T200), CD3 (T3), CD43, CD10 (CALLA), transferrin receptor (T9), a novel broadly expressed 18-kDa antigen (MEM-43) and a novel antigen of restricted expression (MEM-74) Folia Biol (Praha) 1905-06-10 [PMID: 2968928]

Details:

Used the Allophycocyanin form of this antibody.

Koethe S, Zander L, Koster S et al. CD45RB glycosylation is specifically regulated during human peripheral B cell differentiation J Leukoc Biol 2011-07-01 [PMID: 21278234]

Details:

This citation used the Allophycocyanin version of this antibody.

Drbal K, Moertelmaier M, Holzhauser C et al. Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement Int Immunol 2007-05-01 [PMID: 17446208]

Details:

This citation used the Allophycocyanin version of this antibody.

Cermak L, Simova S, Pintzas A et al. Molecular mechanisms involved in CD43-mediated apoptosis of TF-1 cells; Roles of transcription Daxx expression, and adhesion molecules J Biol Chem 2002-03-08 [PMID: 11773067]

Details:

This citation used the Allophycocyanin version of this antibody.

More publications at <http://www.novusbio.com/NB500-319>



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### **Products Related to NB500-319**

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NBL1-14981	CD45 Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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