

Product Datasheet

CD59 Antibody (MEM-43) - BSA Free NB500-330

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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NB500-330

CD59 Antibody (MEM-43) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	MEM-43
Preservative	15mM Sodium Azide
Isotype	IgG2a
Purity	Protein A purified
Buffer	Phosphate buffered saline (PBS), pH 7.4
Target Molecular Weight	20 kDa

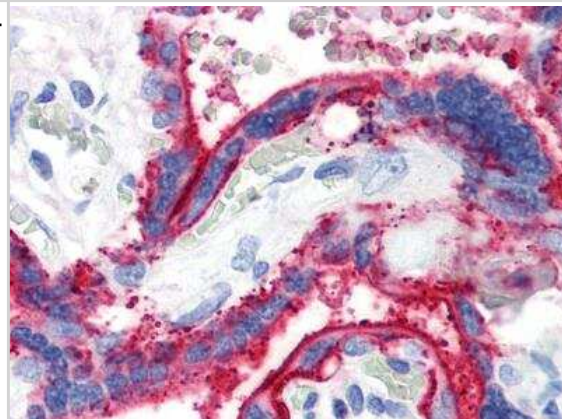
Product Description	
Description	Novus Biologicals Mouse CD59 Antibody (MEM-43) - BSA Free (NB500-330) is a monoclonal antibody validated for use in IHC, Flow and IP. Anti-CD59 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	966
Gene Symbol	CD59
Species	Human
Specificity/Sensitivity	The antibody MEM-43 reacts with well defined epitope (W40, R-53) on CD59 (Protectin), an 18-20 kDa glycosylphosphatidylinositol (GPI)-anchored glycoprotein expressed on all hematopoietic cells; it is widely present on cells in all tissues.
Immunogen	Thymocytes and T lymphocytes (NM_000611.5).

Product Application Details	
Applications	Immunohistochemistry-Paraffin, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Block/Neutralize, CyTOF-ready
Recommended Dilutions	Flow Cytometry 0.5-4 ug/ml, Immunohistochemistry, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 10 ug/ml, Immunohistochemistry-Frozen, CyTOF-ready, Block/Neutralize
Application Notes	Use in blocking / neutralizing reported in scientific literature (PMID 24909955). CD59 antibody validated for IHC-F from a verified customer review. This antibody is CyTOF ready.

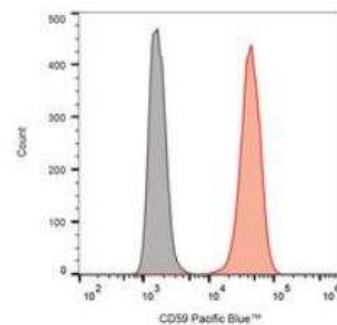


Images

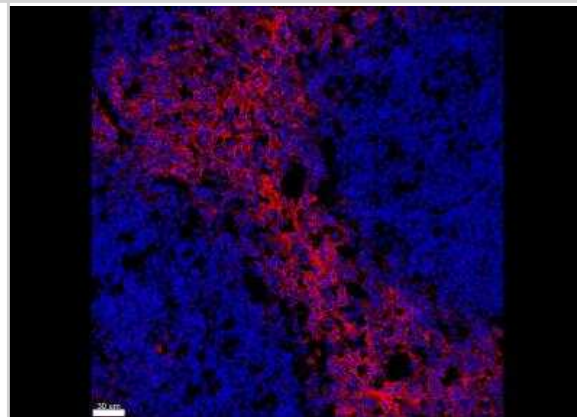
Immunohistochemistry-Paraffin: CD59 Antibody (MEM-43) [NB500-330] - Staining of human placenta (paraffin sections) using anti-CD59 (MEM-43).



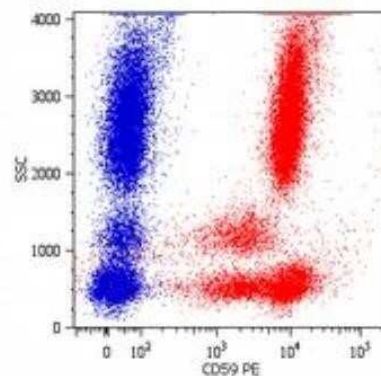
Flow Cytometry: CD59 Antibody (MEM-43) [NB500-330] - Surface staining of HL-60 (positive) and SP2 (negative) cells with anti-human CD59 (MEM-43) Pacific Blue™.



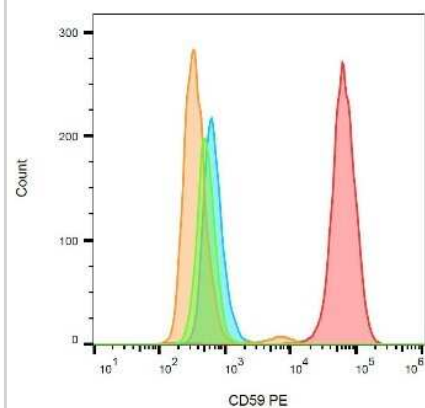
Immunohistochemistry-Frozen: CD59 Antibody (MEM-43) [NB500-330] - Human tonsil frozen tissue section stained for CD59 (red) and counterstained with DAPI (blue). Image from verified customer review.



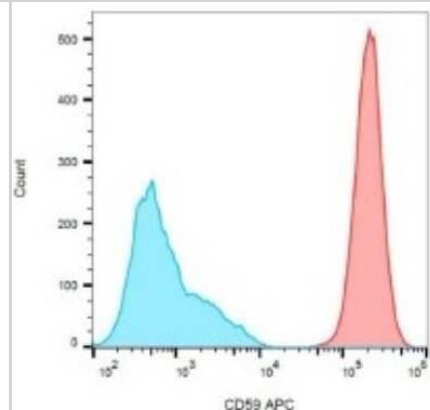
Flow Cytometry: CD59 Antibody (MEM-43) [NB500-330] - Analysis using the PE conjugate of NB500-330. Surface staining of human peripheral blood cells with anti-human CD59 (MEM-43) PE.



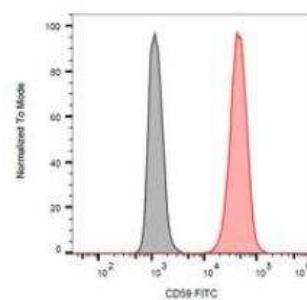
Flow Cytometry: CD59 Antibody (MEM-43) [NB500-330] - Using the PE direct conjugate Surface staining of HL-60 (positive) and SP2 (negative) cells with anti-human CD59 (MEM-43) PE.



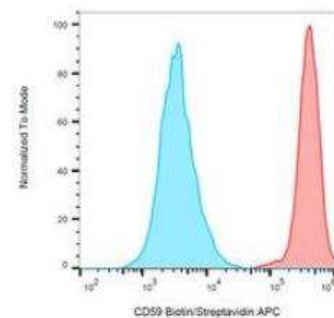
Flow Cytometry: CD59 Antibody (MEM-43) [NB500-330] - Using the Allophycocyanin direct conjugate Surface staining of HL-60 (positive) and SP2 (negative) cells with anti-human CD59 (MEM-43) APC.



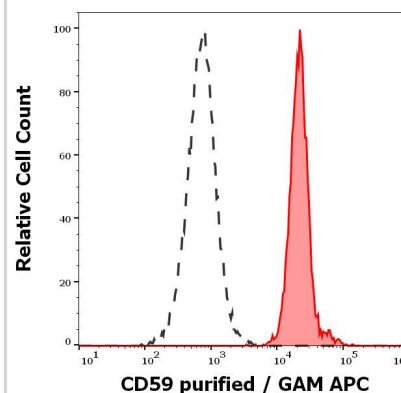
Flow Cytometry: CD59 Antibody (MEM-43) [NB500-330] - Surface staining of HL-60 (positive) and SP2 (negative) cells with anti-human CD59 (MEM-43) FITC.



Flow Cytometry: CD59 Antibody (MEM-43) [NB500-330] - Surface staining of HL-60 (positive) and SP2 (negative) cells with anti-human CD59 (MEM-43) biotin / streptavidin-APC.



Surface staining pattern of human peripheral blood stained using anti-human CD59 (MEM-43) purified antibody (concentration in sample 0.3 ug/ml, GAM APC).



Publications

Li J, Wu Z, He H, Lu W. Correction to: Comparative analysis of groundwater contaminant sources identification based on simulation optimization and ensemble Kalman filter. *Environmental science and pollution research international* 2023-01-01 [PMID: 36504306]

Athena Labeau, Etienne Simon-Loriere, Mohamed-Lamine Hafirassou, Lucie Bonnet-Madin, Sarah Tessier, Alessia Zamborlini, Thierry Dupré, Nathalie Seta, Olivier Schwartz, Marie-Laure Chaix, Constance Delaugerre, Ali Amara, Laurent Meertens A Genome-Wide CRISPR-Cas9 Screen Identifies the Dolichol-Phosphate Mannose Synthase Complex as a Host Dependency Factor for Dengue Virus Infection *Journal of Virology* 2020-04-01 [PMID: 31915280]

Sheridan RT1 Hudon J Hank JA Sondel PM Kiessling LL. Rhamnose glycoconjugates for the recruitment of endogenous anti-carbohydrate antibodies to tumor cells. *Chembiochem.* 2014-06-06 [PMID: 24909955] (B/N, Human)

Details:

CD59 antibody (clone MEM-43) was used in blocking/neutrization application for blocking CD59 complement inhibitory function in an antibody-dependent complement-mediated cytotoxicity assay targeting M21 cells, allowing the activation of complement to be seen that would have been otherwise obscured. See full text of paper for detailed protocol on Complement-Dependent Cytotoxicity Assay and the data is shown in Figure 5.

Stefanova I Itigt et al. Characterization of a broadly expressed human leucocyte surface antigen MEM-43 anchored in membrane through phosphatidylinositol. *Mol Immunol* 1989-01-01 [PMID: 2918859]

Forsberg UH Itigt et al. Gene for human CD59 (likely Ly-6 homologue) is located on the short arm of chromosome 11. *Immunogenetics* 1989-01-01 [PMID: 2476389]

Stefanova I Itigt et al. GPI-anchored cell-surface molecules complexed to protein tyrosine kinases. *Science* 1991-01-01 [PMID: 1719635]

Cebecauer M, Cerny J, Horejsi V. Incorporation of leucocyte GPI-anchored proteins and protein tyrosine kinases into lipid-rich membrane domains of COS-7 cells. *Biochem Biophys Res Commun*;243(3):706-10. 1998-02-24 [PMID: 9500981]



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Products Related to NB500-330

NBL1-08958	CD59 Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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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