Product Datasheet

CD59 Antibody (MEM-43/5) [Allophycocyanin]
NB500-400APC

Unit Size: 0.1 ml

Store at 4C in the dark.

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Publications: 1

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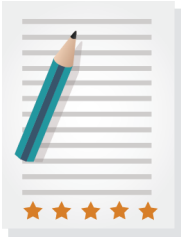
Updated 10/23/2024 v.20.1



NB500-400APC

CD59 Antibody (MEM-43/5) [Allophycocyanin]

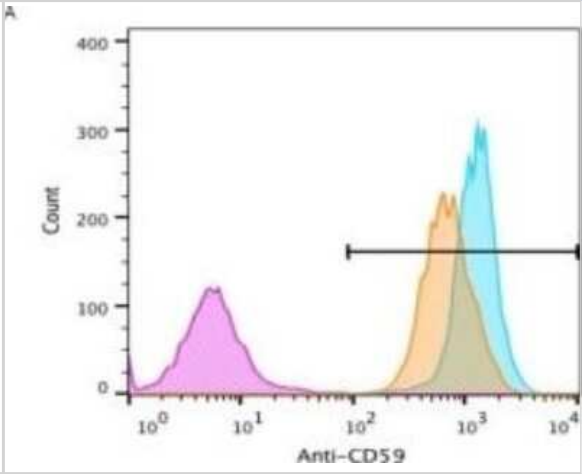
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	MEM-43/5
Preservative	0.05% Sodium Azide
Isotype	IgG2b
Conjugate	Allophycocyanin
Purity	Protein A purified
Buffer	PBS

Product Description	
Host	Mouse
Gene ID	966
Gene Symbol	CD59
Species	Human, Mouse
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Specificity/Sensitivity	The antibody MEM-43/5 reacts with well defined epitope (around L33) on CD59 (Protectin), a 18-20 kDa glycosylphosphatidylinositol (GPI)-anchored glycoprotein expressed on all hematopoietic cells; it is widely present on cells in all tissues. The MEM-43/5 does not compete with most other CD59 antibodies. HLDA V; WS Code AS S012
Immunogen	Thymocytes and T lymphocytes.

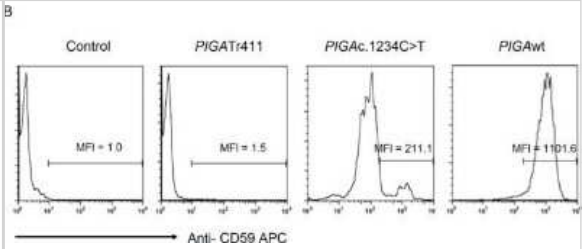
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot, Flow Cytometry, Immunohistochemistry, Immunoprecipitation, Immunohistochemistry-Paraffin, CyTOF-ready

Images

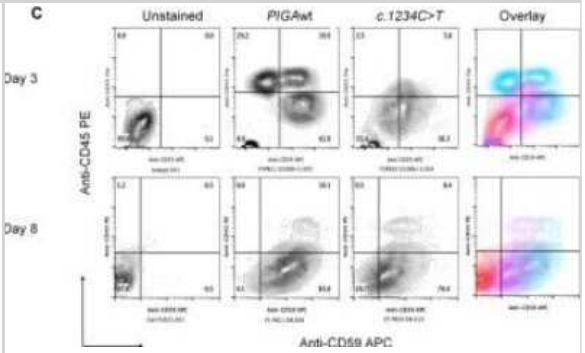
Flow Cytometry: CD59 Antibody (MEM-43/5) [Allophycocyanin] [NB500-400APC] - The PIGAc.1234C>T mutation increases PIGA function compared to PIGAnull hiPSCs.(A). Representative example of FACS analysis CD59 expression in the three hiPSC lines. Overlay histogram shows that CD59 expression was significantly higher in PIGAc.1234 C>T hiPSCs compared to PIGAnull hiPSCs. MFI was 445.4 in PIGAwt hiPSCs and 332.6 in PIGAc.1234C>T hiPSCs (p>0.05, NS). However, MFI in PIGAc.1234C>T hiPSCs was significantly higher than 17.9 in PIGAnull hiPSCs (*p<0.05). The results indicated PIGA gene function was partially restored in PIGAc.1234C>T hiPSCs. PIGAnull hiPSCs (purple), PIGAc.1234C>T hiPSCs (orange) and PIGAwt hiPSCs (blue). Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0174074), licensed under a CC-BY license.



Flow Cytometry: CD59 Antibody (MEM-43/5) [Allophycocyanin] [NB500-400APC] - Generation of PIGAc.1234C>T mutation using the PiggyBac transposon system. Representative FACS analysis CD59 expression in TF1PIGAnull cells transfected with PB-PIGAwt, PB-PIGAc.1234C>T or PB-PIGAtr411. Transfected TF1PIGAnull cells were stained with an APC-conjugated CD59 antibody to assess PIGA gene expression. Non-transfected TF1PIGAnull cells were used as a control. MFI represents mean fluorescence intensity. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0174074), licensed under a CC-BY license.



Flow Cytometry: CD59 Antibody (MEM-43/5) [Allophycocyanin] [NB500-400APC] - The PIGAc.1234C>T mutation does not impair terminal hematopoietic differentiation during mesoderm induction. Representative example of FACS analysis of hematopoietic phenotypes in the EB-BLCs from PIGAwt and PIGAc.1234C>T. The zebra plot shows expression of CD59 (X-axis) and CD45 (Y-axis) after three and eight days of hematopoietic differentiation. Unstained PIGAwt cells were used as a control. Abbreviations: CFU-Macrophage (M); CFU-Granulocyte-Macrophage (GM); committed erythroid BFU-E (BFU) and CFU-E (CFU) progenitors; multipotent progenitor cells CFU-GEMM (GEMM). Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0174074), licensed under a CC-BY license.



Publications

Yuan X, Li Z, Baines AC et al. A hypomorphic PIGA gene mutation causes severe defects in neuron development and susceptibility to complement-mediated toxicity in a human iPSC model. PLoS ONE. [PMID: 28441409] (FLOW, Human)

Details:
Citation using the Allophycocyanin form of this antibody.

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 NB500-400APC

IC0041A	Mouse IgG2b Isotype Control (133303) [Allophycocyanin]
NB500-400UV	CD59 Antibody (MEM-43/5) [DyLight 350]
NBP1-89405PEP	CD59 Recombinant Protein Antigen
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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