

Product Datasheet

CD44 Antibody (MEM-263) - BSA Free NB500-481

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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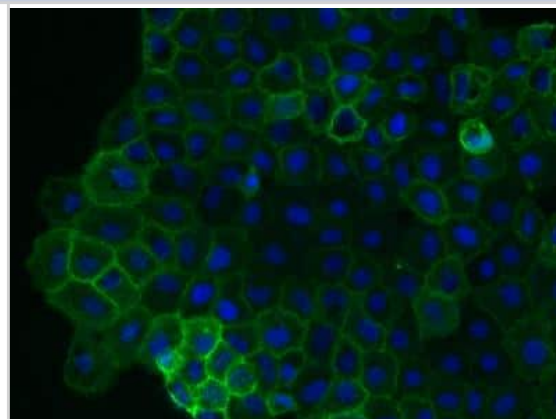
NB500-481

CD44 Antibody (MEM-263) - BSA Free

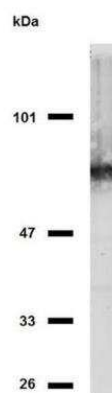
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	MEM-263
Preservative	0.9% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH 7.4)
Target Molecular Weight	95 kDa
Product Description	
Host	Mouse
Gene ID	960
Gene Symbol	CD44
Species	Human, Porcine, Canine
Marker	Cell Membrane Marker
Specificity/Sensitivity	The antibody MEM-263 reacts with extracellular (N-terminal) domain of standard CD44 (Phagocyte glycoprotein 1), a 80-95 kDa transmembrane glycoprotein (hyaladherin family) present on the most of cells and tissues (leukocytes, endothelial cells, mesenchymal cells, etc.); it is negative on platelets and hepatocytes. HLDA III; WS Code T 155
Immunogen	COS-7 cells, African Green Monkey (NM_000610.3).
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 2 ug/ml, Flow Cytometry 4 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 10 ug/ml, CyTOF-ready
Application Notes	Western Blot - Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer. Application note: Non-reducing conditions. SDS-PAGE (6% separating gel). Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID 25481699). This antibody is CyTOF ready.

Images

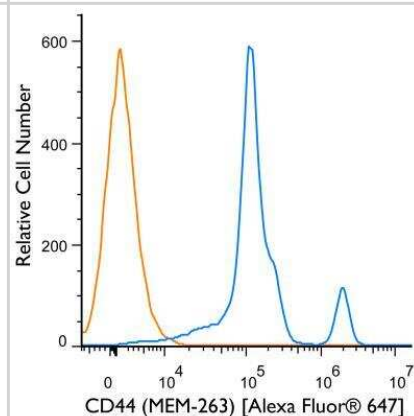
Immunocytochemistry/Immunofluorescence: CD44 Antibody (MEM-263) [NB500-481] - analysis of CD44 in 4% paraformaldehyde fixed Caov-3 cells (adherent human ovarian cancer cells) using anti-Cd44 antibody. The primary antibody was used at a dilution of 1:1000 in 2% goat serum in PBS and incubated for 2 hours at room temperature. Image from verified customer review.



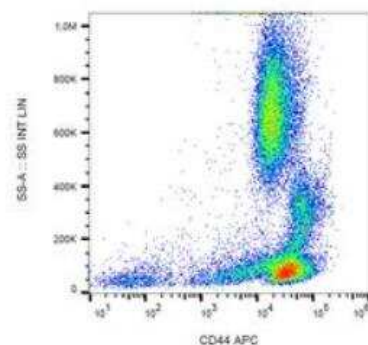
CD44 Antibody (MEM-263) [NB500-481] - Analysis of CD44 in HeLa cells using anti-CD44 (MEM-263) purified; non-reducing conditions.



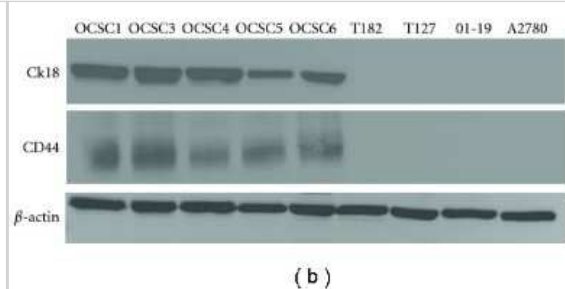
Flow Cytometry: CD44 Antibody (MEM-263) [NB500-481] - A surface stain was performed on hPBMCs with CD44 (MEM-263) antibody NB500-481AF647 (blue) and a matched isotype control NBP2-27287AF647 (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



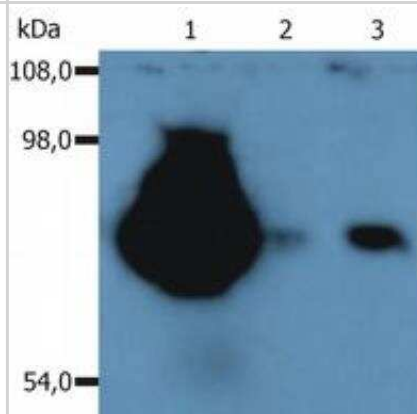
Flow Cytometry: CD44 Antibody (MEM-263) [NB500-481] - Staining of human peripheral blood using anti-CD44 (MEM-263) APC conjugate.



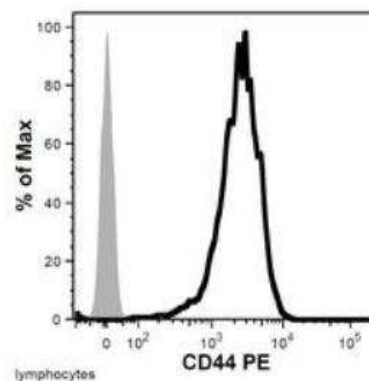
Western Blot: CD44 Antibody (MEM-263) [NB500-481] - Expression of CD44 and CK18 in multiple clones of ovarian cancer cells. CD44+ cells also express CK18 as determined by western blot analysis. Image collected and cropped by CiteAb from the following publication (<https://www.hindawi.com/journals/jo/2011/620523/>) licensed under a CC-BY license.



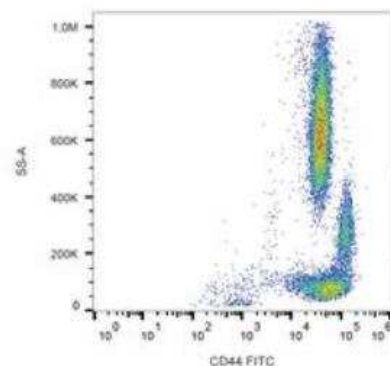
Western Blot: CD44 Antibody (MEM-263) [NB500-481] - Fig. 1. Western Blotting analysis (non-reducing conditions) of isolated peripheral blood lymphocytes of various species using anti-CD44 (MEM-263). Lane 1: lysate of human PBL Lane 2: lysate of canine PBL Lane 3: lysate of porcine PBL.



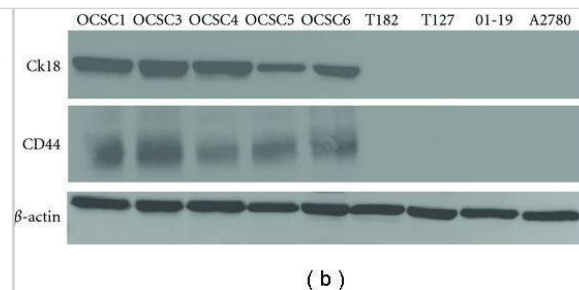
Flow Cytometry: CD44 Antibody (MEM-263) [NB500-481] - Analysis of human peripheral blood (lymphocyte gate) using anti-CD44 (MEM-263) PE conjugate.



Flow Cytometry: CD44 Antibody (MEM-263) [NB500-481] - Staining of human peripheral blood using anti-CD44 (MEM-263) FITC conjugate.



Expression of CD44 and CK18 in multiple clones of ovarian cancer cells. (a)-(b). CD44+ cells also express CK18 as determined by flow cytometry (a) and western blot analysis (b). Flow cytometer is representative of the eight evaluated clones. EOC stem cells, determined by either CD44 (c and d) or Ck18 (e and f) expression, are found in clusters surrounded by CD44- or Ck18- negative cancer cells.



Publications

HD Dawson, JK Lunney Porcine cluster of differentiation (CD) markers 2018 update Res. Vet. Sci., 2018-02-22;118 (0):199-246. 2018-02-22 [PMID: 29518710]

Steigerwald H, Bozzetti T, Tams M et al. Lysosomal acid lipase-activity as a novel target to efficiently address triple-negative breast cancer high malignancy bioRxiv 2023-10-03 (FLOW, Human)

Solier S, Müller S, Cañeque T et al. A druggable copper-signalling pathway that drives inflammation Nature 2023-04-26 [PMID: 37100912] (FLOW, Human)

Müller, S, Sindikubwabo, F Et al. CD44 regulates epigenetic plasticity by mediating iron endocytosis. Nat Chem 2020 -10-01 [PMID: 32747755] (WB, Human)

Muller S, Versini A, Sindikubwabo F et al. Metformin reveals a mitochondrial copper addiction of mesenchymal cancer cells. PLoS ONE. 2018-11-06 [PMID: 30399175] (FLOW, Human)

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

Huang CC, Tsai HW, Lee WY et al. A translational approach in using cell sheet fragments of autologous bone marrow-derived mesenchymal stem cells for cellular cardiomyoplasty in a porcine model Biomaterials [PMID: 23528228] (FLOW, Porcine)

Details:

Used the FITC form of this antibody.

Moreno A, Martinez A, Olmedillas S et al. Hyaluronic acid effect on adipose-derived stem cells. Biological in vitro evaluation. Rev Esp Cir Ortop Traumatol. 2014-12-03 [PMID: 25481699] (ICC/IF, Human)

Details:

CD44 antibody used for ICC-IF on adipose-derived stem cells (ASC)

Gnainsky Y, Granot I, Aldo P et al. Biopsy-induced inflammatory conditions improve endometrial receptivity: the mechanism of action. Reproduction. 2014-10-27 [PMID: 25349438]

Steffensen KD, Alvero AB, Yang Y et al. Prevalence of epithelial ovarian cancer stem cells correlates with recurrence in early-stage ovarian cancer. J Oncol 201. [PMID: 21904548]



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Products Related to NB500-481

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NB500-481AF647	CD44 Antibody (MEM-263) [Alexa Fluor® 647]

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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