Product Datasheet

Endoglin/CD105 Antibody (MEM-229) - BSA Free
NB110-58718

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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Publications: 7

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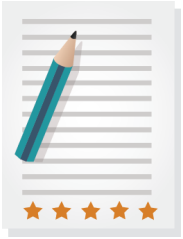
Updated 10/23/2024 v.20.1



NB110-58718

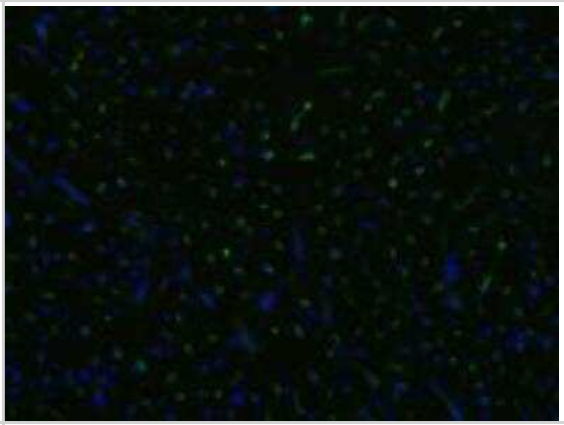
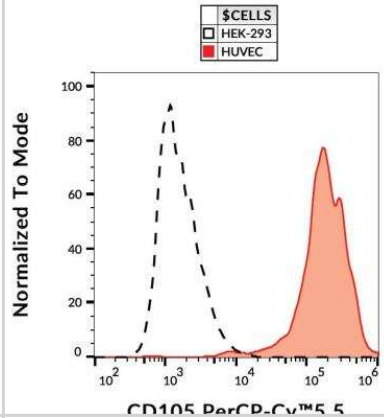
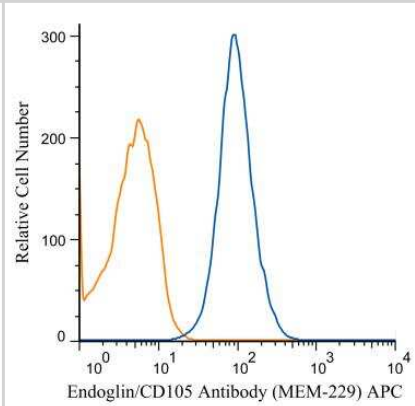
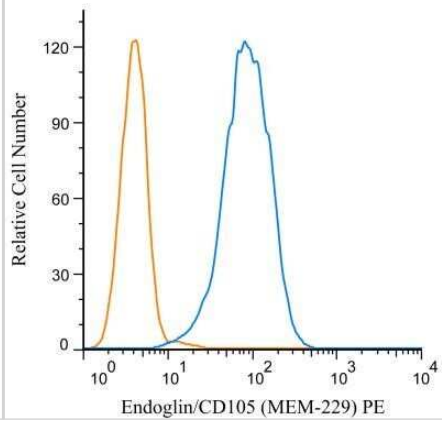
Endoglin/CD105 Antibody (MEM-229) - BSA Free

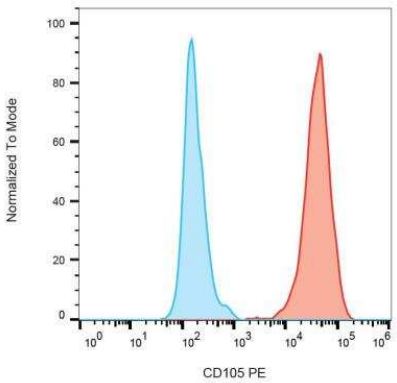
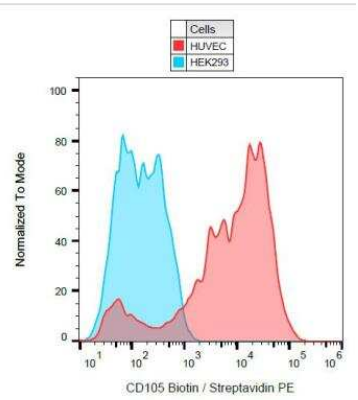
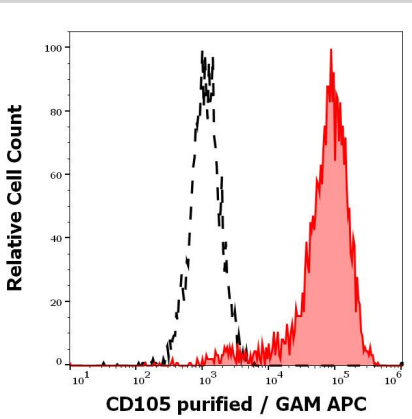
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	MEM-229
Preservative	0.9% Sodium Azide
Isotype	IgG2a
Purity	Protein A purified
Buffer	PBS (pH 7.4)
Target Molecular Weight	90 kDa

Product Description	
Host	Mouse
Gene ID	2022
Gene Symbol	ENG
Species	Human, Porcine, Canine (Negative), Equine (Negative)
Marker	Neo-endothelial Cells Marker
Specificity/Sensitivity	This antibody (clone MEM-229) recognizes CD105 (Endoglin), a 180 kDa type I integral membrane homodimer glycoprotein expressed on vascular endothelial cells (small and large vessels), activated monocytes and tissue macrophages, stromal cells of certain tissues including bone marrow, pre-B lymphocytes in fetal marrow and erythroid precursors in fetal and adult bone marrow; it is also present on syncytiotrophoblast on placenta throughout pregnancy.
Immunogen	recombinant vaccinia virus containing human CD105 (L-isoform) cDNA

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, CyTOF-ready
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 2-6 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Frozen 1:200, CyTOF-ready
Application Notes	Western Blot: use non-reducing conditions. This antibody is CyTOF ready.

Images

Immunocytochemistry/Immunofluorescence: Endoglin/CD105 Antibody (MEM-229) [NB110-58718] - Staining of an infarcted porcine heart with anti-CD105 (MEM-229; green); cell nuclei stained with DAPI (blue).	
Flow Cytometry: Endoglin/CD105 Antibody (MEM-229) [NB110-58718] - Staining of CD105 on Huvec cells with anti-CD105 (MEM-229) PerCP-CyTM5.5.	
Flow Cytometry: Endoglin/CD105 Antibody (MEM-229) [NB110-58718] - Analysis of the APC conjugate of this antibody. A cell surface stain was performed on THP-1 cells with Endoglin antibody NB110-58718APC (blue) along with a matched isotype control (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at RT.	
Flow Cytometry: Endoglin/CD105 Antibody (MEM-229) [NB110-58718] - A cell surface stain was performed on HeLa cells with Endoglin/CD105 antibody (MEM-229) NB110-58718PE (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin.	

Flow Cytometry: Endoglin/CD105 Antibody (MEM-229) [NB110-58718] - Staining of CD105 on Huvec cells with anti-CD105 (MEM-229) PE.	
Flow Cytometry: Endoglin/CD105 Antibody (MEM-229) [NB110-58718] - Staining of CD105 on Huvec cells with anti-CD105 (MEM-229) biotin.	
Separation of HUVEC cells stained using anti-human CD105 (MEM-229) purified antibody (concentration in sample 3 ug/ml, red-filled, GAM APC) from HUVEC cells stained using mouse IgG1 isotype control (MOPC-21) purified antibody (concentration in sample 3 ug/ml, black-dashed, GAM APC) in Analysis (surface staining).	

Publications

Kim GY, Choi GT, Park J et al. Comparative Analysis of Porcine Adipose- and Wharton's Jelly-Derived Mesenchymal Stem Cells Animals : an open access journal from MDPI 2023-09-17 [PMID: 37760347] (FLOW, Porcine)

Belhoul-Fakir H, Wu J, Yeow YL et al. Injury to the tunica media initiates atherogenesis in the presence of hyperlipidemia Frontiers in cardiovascular medicine 2023-03-30 [PMID: 37063951] (IHC, Porcine)

Dey D, Fischer NG, Dragon AH Et al. Culture and characterization of various porcine integumentary-connective tissue-derived mesenchymal stromal cells to facilitate tissue adhesion to percutaneous metal implants Stem Cell Res Ther 2021-12-19 [PMID: 34922628] (FLOW, Porcine)

Details:
Citation using the FITC version of this antibody.

Morini S, Pla-PalacIn I, Sainz-Arnal P Et al. Parallel Isolation and Characterization of Porcine Smooth Muscle, Endothelial and Mesenchymal Stromal Cells for Bioengineering Applications Research Square 2021-11-12 (FLOW, ICC/IF, Porcine)

Trivedi, A;Miyazawa, B;Gibb, S;Valanoski, K;Vivona, L;Lin, M;Potter, D;Stone, M;Norris, PJ;Murphy, J;Smith, S;Schreiber, M;Pati, S; Bone marrow donor selection and characterization of MSCs is critical for pre-clinical and clinical cell dose production J Transl Med 2019-04-17 [PMID: 30995929] (FLOW, Porcine)

Kuss MA, Harms R, Wu S et al. Short-term hypoxic preconditioning promotes prevascularization in 3D bioprinted bone constructs with stromal vascular fraction derived cells RSC Advance 2017-01-01 [PMID: 28670447] (FLOW)

Details:
This reference used the Allophycocyanin version of NB110-58718.

Planka L, Necas A, Srnec R et al. Use of allogenic stem cells for the prevention of bone bridge formation in miniature pigs Physiol Res 2009-01-01 [PMID: 19093735]

Details:
This citation used the Biotin version of this antibody.

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Products Related to NB110-58718

NBL1-10266	Endoglin/CD105 Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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