

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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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	15mM Sodium Azide
Isotype	IgG2a
Purity	Protein A purified
Buffer	Phosphate buffered saline (PBS), pH 7.4
Target Molecular Weight	90 kDa

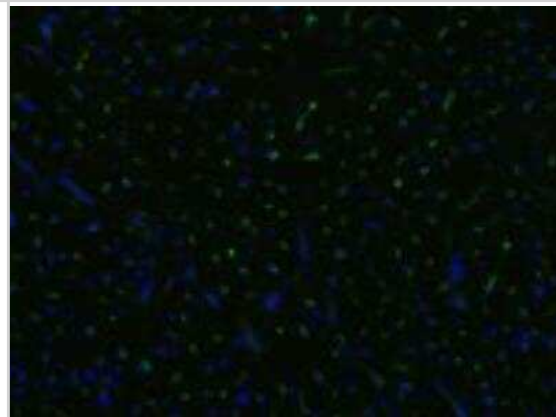
Product Description	
Description	Novus Biologicals Mouse Endoglin/CD105 Antibody (MEM-229) - BSA Free (NB110-58718) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-Endoglin/CD105 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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.

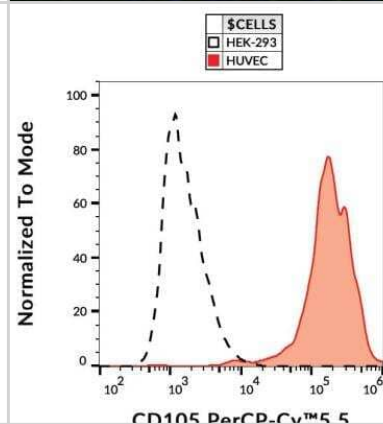


Images

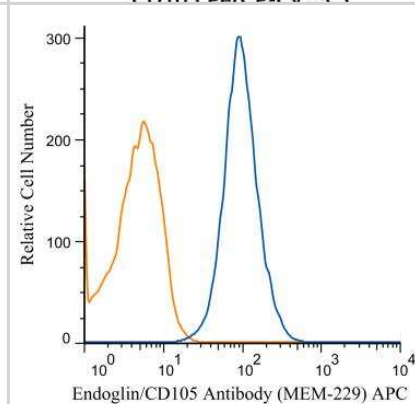
Immunocytochemistry/Immunofluorescence: Endoglin/CD105 Antibody (MEM-229) [NB110-58718] - Staining of an infarcted porcine heart with anti-CD105 (MEM-229; green); cell nuclei stained with DAPI (blue).



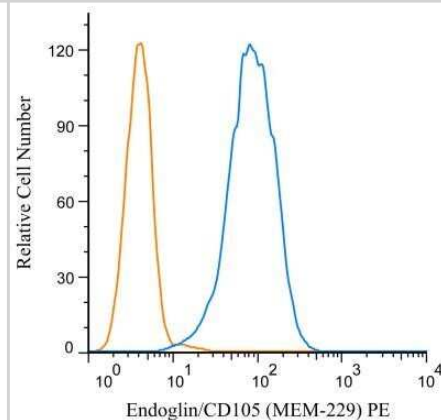
Flow Cytometry: Endoglin/CD105 Antibody (MEM-229) [NB110-58718] - Staining of CD105 on Huvec cells with anti-CD105 (MEM-229) PerCP-CyTM5.5.



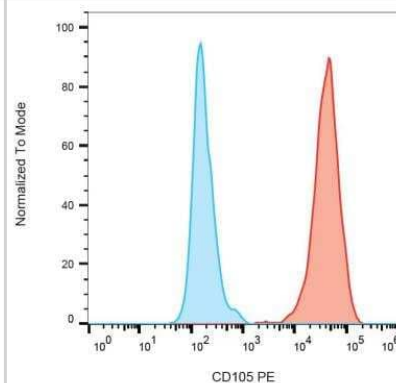
Flow Cytometry: Endoglin/CD105 Antibody (MEM-229) [NB110-58718] - Analysis of the APC conjugate of this antibody. A cell surface stain was performed on THP-1 cells with Endoglin antibody NB110-58718APC (blue) along with a matched isotype control (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at RT.



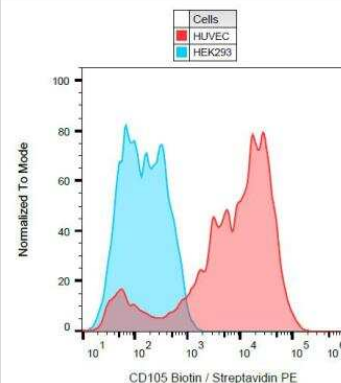
Flow Cytometry: Endoglin/CD105 Antibody (MEM-229) [NB110-58718] - A cell surface stain was performed on HeLa cells with Endoglin/CD105 antibody (MEM-229) NB110-58718PE (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin.



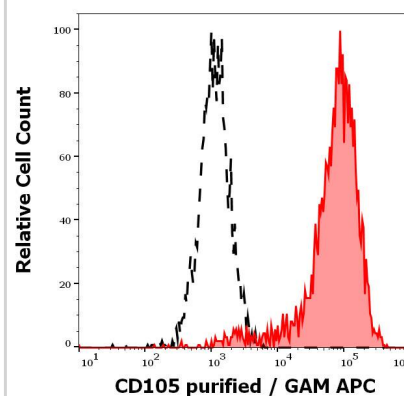
Flow Cytometry: Endoglin/CD105 Antibody (MEM-229) [NB110-58718] - Staining of CD105 on Huvec cells with anti-CD105 (MEM-229) PE.



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)

Belhouf-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-Palacín 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
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]
NBP1-96778	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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