

# Product Datasheet

## Endoglin/CD105 Antibody (MEM-226) - BSA Free NB500-452

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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**NB500-452**

Endoglin/CD105 Antibody (MEM-226) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	MEM-226
Preservative	15mM Sodium Azide
Isotype	IgG2a
Purity	Protein A purified
Buffer	Phosphate buffered saline (PBS), pH 7.4
Target Molecular Weight	90 kDa

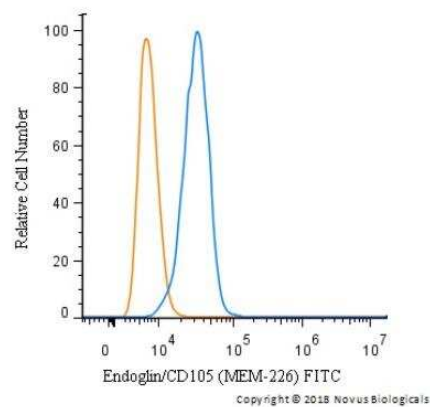
Product Description	
Description	Novus Biologicals Mouse Endoglin/CD105 Antibody (MEM-226) - BSA Free (NB500-452) is a monoclonal antibody validated for use in WB, Flow and IP. Anti-Endoglin/CD105 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	2022
Gene Symbol	ENG
Species	Human, Rat
Marker	Neo-endothelial Cells Marker
Specificity/Sensitivity	The antibody MEM-226 reacts with CD105 (Endoglin), a 90 kDa type I homodimerizing membrane 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 full length protein (Human). Expressed in vaccinia virus containing CD105 cDNA.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Cell Surface), Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1-5 ug/ml, Immunoprecipitation 1:50, Flow (Cell Surface), CyTOF-ready
Application Notes	Western Blot validation of this product was carried out under non-reducing conditions. This antibody is CyTOF ready.

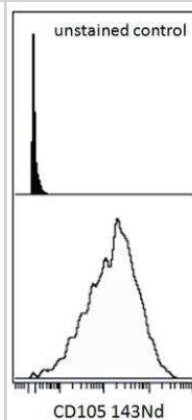


## Images

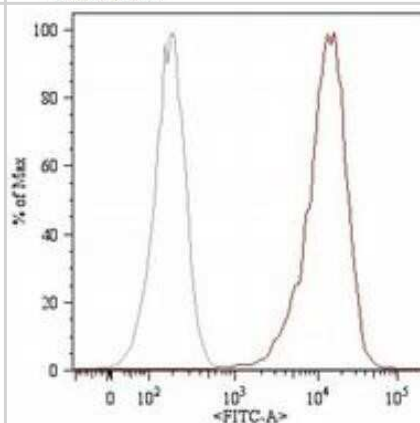
Flow Cytometry: Endoglin/CD105 Antibody (MEM-226) [NB500-452] - A cell surface stain was performed on HeLa cells with NB500-452F (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 5 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to FITC.



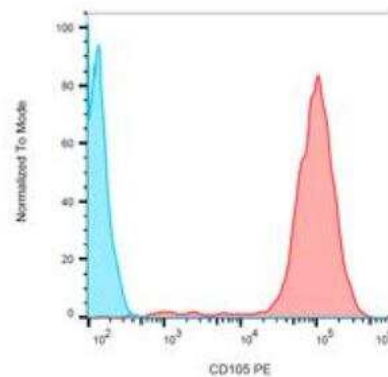
Flow Cytometry: Endoglin/CD105 Antibody (MEM-226) [NB500-452] - Surface staining (mass cytometry) of hTERT cell line with anti-human CD105 (MEM-226) 143Nd. Gated on singlets.



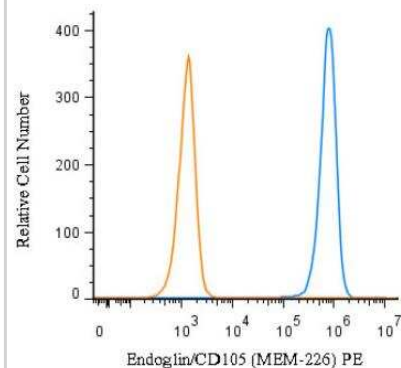
Flow (Cell Surface): Endoglin/CD105 Antibody (MEM-226) [NB500-452] - Analysis using the FITC conjugate of NB500-452. Staining of HUVEC (human umbilical vein endothelial cells) with anti-human CD105 (MEM-226) FITC. Total viable cells were used for analysis.



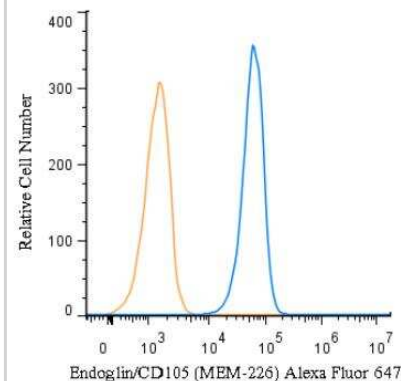
Flow Cytometry: Endoglin/CD105 Antibody (MEM-226) [NB500-452] - Surface staining of HUVEC (human umbilical vein endothelial cells) with anti-CD105 (MEM-226) PE. HEK-293 cells used as a negative control.



Flow (Cell Surface): Endoglin/CD105 Antibody (MEM-226) [NB500-452] - A cell surface stain was performed on HeLa cells with Endoglin/CD105 Antibody (MEM-226) NB500-452PE (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 2.5 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin.

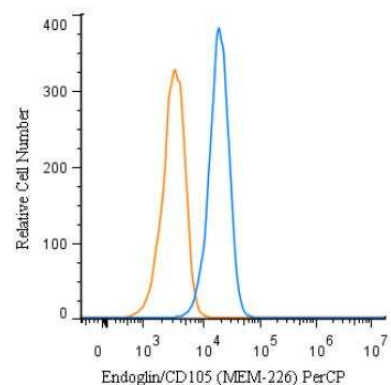


Flow Cytometry: Endoglin/CD105 Antibody (MEM-226) [NB500-452] - A cell surface stain was performed on HeLa cells with Endoglin/CD105 Antibody (MEM-226) NB500-452AF647 (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 5 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



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Flow Cytometry: Endoglin/CD105 Antibody (MEM-226) [NB500-452] - A cell surface stain was performed on HeLa cells with Endoglin/CD105 Antibody (MEM-226) NB500-452PCP (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 5 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to PerCP.



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## Publications

Deng W, Jo JI, Morikuni H et al. Senescence-associated secretory phenotypes in rat-derived dedifferentiated fat cells with replicative senescence *Dental materials journal* 2023-02-10 [PMID: 36775334] (FLOW, Rat)

Horiuchi K, Ozeki N, Endo K Et al. Thawed cryopreserved synovial mesenchymal stem cells show comparable effects to cultured cells in the inhibition of osteoarthritis progression in rats *Sci Rep* 2021-05-07 [PMID: 33958682]

Details:

Citation using the Allophycocyanin version of this antibody.

Zhang J, Li C, Meng F et al. Functional tissue-engineered microtissue formed by self-aggregation of cells for peripheral nerve regeneration *Stem cell research & therapy* 2022-01-10 [PMID: 35012663] (FLOW, Rat)

He Q, Ye Z, Zhou Y et al. Comparative study of mesenchymal stem cells from rat bone marrow and adipose tissue *Turk Biol* [PMID: 30983864] (FLOW, Rat)

Details:

Citation using the Alexa Fluor 405 format of this antibody.

de Vries RJ, Pendexter CA, Cronin SEJ et al. Cell release during perfusion reflects cold ischemic injury in rat livers *Sci Rep*. [PMID: 31980677] (FLOW, Rat)





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### **Products Related to NB500-452**

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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)

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### **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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