

# Product Datasheet

## Endoglin/CD105 Antibody (MJ7/18) - BSA Free NB100-77666

Unit Size: 0.5 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB100-77666**

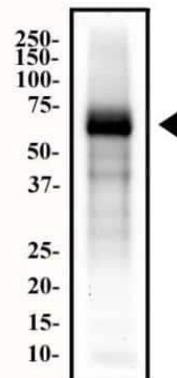
Endoglin/CD105 Antibody (MJ7/18) - BSA Free

Product Information	
<b>Unit Size</b>	0.5 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	MJ7/18
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	Tris-Glycine
Product Description	
<b>Description</b>	Novus Biologicals Rat Endoglin/CD105 Antibody (MJ7/18) - BSA Free (NB100-77666) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-Endoglin/CD105 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rat
<b>Gene ID</b>	2022
<b>Gene Symbol</b>	ENG
<b>Species</b>	Mouse
<b>Marker</b>	Neo-endothelial Cells Marker
<b>Immunogen</b>	Inflamed mouse skin
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:100-1:2000, Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen 1:10-1:500, Flow (Cell Surface)
<b>Application Notes</b>	For immunofluorescent staining, the suggested use of this reagent is: 0.5 microgram per one million cells in 100 microliter volume. It is recommended that the reagent be titrated for optimal performance for each application.

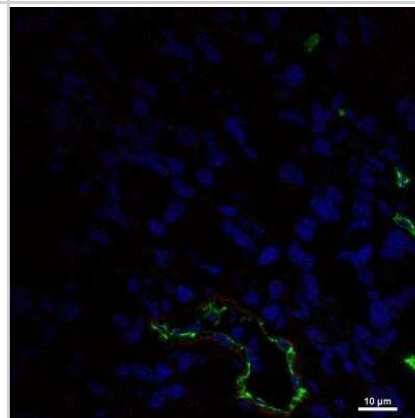


## Images

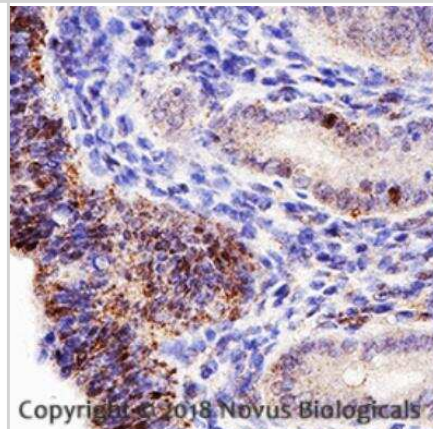
**Western Blot: Endoglin/CD105 Antibody (MJ7/18) [NB100-77666]** - Total protein from mouse placenta was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocking in 5% non-fat milk in TBST. The membrane was probed with 2 ug/ml anti-CD105 (NB100-77666) in 1% milk/TBST and detected with an anti-rat HRP conjugated secondary antibody using chemiluminescence.



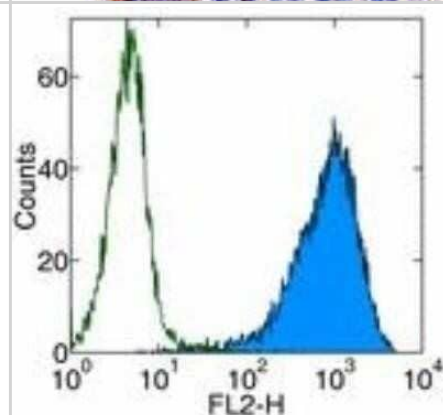
**Immunocytochemistry/Immunofluorescence: Endoglin/CD105 Antibody (MJ7/18) [NB100-77666]** - Using the DyLight 550 direct conjugate Staining of CD105 (endoglin) in 4T1 tumors after radioimmunotherapy shows CD105 expression (red), blood vessels (green), and nuclei (blue).



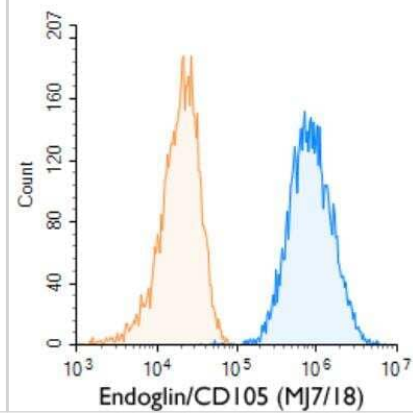
**Immunohistochemistry-Paraffin: Endoglin/CD105 Antibody (MJ7/18) [NB100-77666]** - Analysis of a FFPE mouse ductus deference using a 1:50 dilution of CD105 antibody (clone MJ7/18) on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images (20X) was performed using Aperio AT2 (Leica Biosystems). Staining was observed in the pseudostratified columnar epithelial cells. Staining was performed by Histowiz.



**Flow Cytometry: Endoglin/CD105 Antibody (MJ7/18) [NB100-77666]** - Analysis of Biotin conjugate of NB100-77666. Surface staining of bEND.3 cell line with 0.25 ug of Anti-Mouse CD105 (Endoglin) Biotin followed by Streptavidin PE. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.



Flow (Cell Surface): Endoglin/CD105 Antibody (MJ7/18) [NB100-77666]  
 - A surface stain was performed on MS-1 Cells with Endoglin/CD105 (MJ7/18) antibody NB100-77666 (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature, followed by rat F(ab)<sub>2</sub> IgG (H+L) APC-conjugated secondary antibody (F0113, R&D Systems).



## Publications

Menet R, Nasrallah L, Bernard M et al. VEGF-E Attenuates Injury After Ischemic Stroke by Promoting Reparative Revascularization. *The European journal of neuroscience* 2025-04-25 [PMID: 40277075]

Tian H, Ketova T et al. Endoglin Mediates Vascular Maturation by Promoting Vascular Smooth Muscle Cell Migration and Spreading. *Arterioscler Thromb Vasc Biol* 2017-01-06 [PMID: 28450296] (IP, Mouse)

Braun RK, Chetty C, Balasubramaniam V, et al Intraperitoneal injection of MSC-derived exosomes prevent experimental bronchopulmonary dysplasia. *Biochem Biophys Res Commun*. 2018 Aug 07 [PMID: 30093115] (Flow, Rat)

Ehlerding E, Lacognata S, Jiang D et al. Targeting angiogenesis for radioimmunotherapy with a <sup>177</sup>Lu-labeled antibody. *Eur J Nucl Med Mol Imaging* 2017-08-18 [PMID: 28821931] (ICC/IF, Mouse)



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### **Products Related to NB100-77666**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NB7115	Goat anti-Rat IgG (H+L) Secondary Antibody [HRP]
NBP1-43321-0.5mg	Rat IgG2a Kappa Light Chain Isotype Control (R2a)

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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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