Endoglin / CD105 (Angiogenesis Marker) Antibody

Mouse Monoclonal Antibody [Clone ENG/3269]

Catalog No	Format	Size
2022-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2022-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2022-MSM5-P1ABX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug

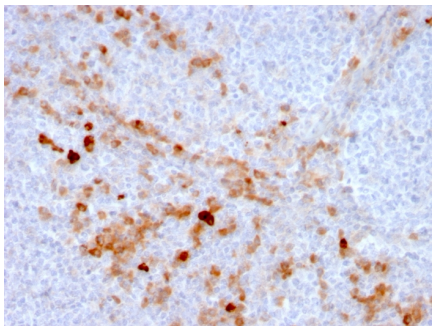
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

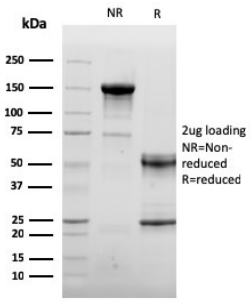
Clone	ENG/3269
Gene Name	ENG
Immunogen	Recombinant human Endoglin protein fragment (aa312-438) corresponding to the extracellular domain
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	84kDa
Cellular Localization	Cell membrane
Species Reactivity	Human
Positive Control	A431 or HL-60 cell lysates (WB). Human tonsil or placenta (IHC)., HeLa

**Optimal dilution for a specific application should be determined.*

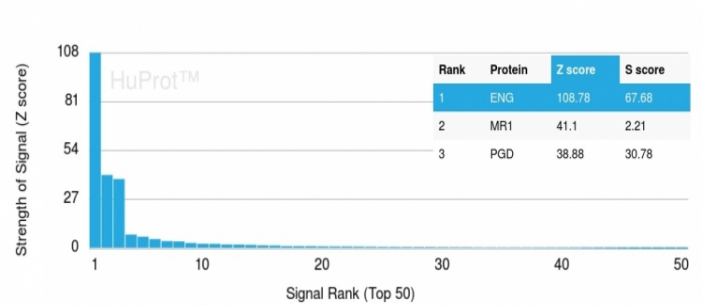
Product Images for Endoglin / CD105 (Angiogenesis Marker) Antibody



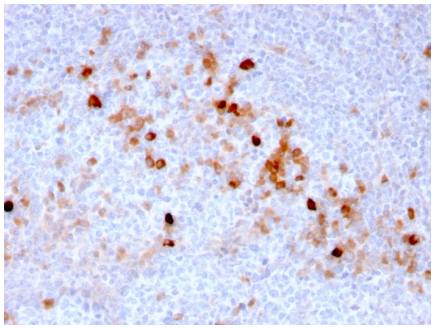
Formalin-fixed, paraffin-embedded human Tonsil stained with Endoglin / CD105 Mouse Monoclonal Antibody (ENG/3269).



SDS-PAGE Analysis of Purified Endoglin / CD105 Mouse Monoclonal Antibody (ENG/3269). Confirmation of Integrity and Purity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Endoglin / CD105 Mouse Monoclonal Antibody (ENG/3269). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD,Äôs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD,Äôs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human Tonsil stained with Endoglin / CD105 Mouse Monoclonal Antibody (ENG/3269).

Specificity & Comments

CD105/Endoglin is a Type I membrane glycoprotein located on cell surfaces and is part of the TGF-beta receptor complex. This protein has been found on endothelial cells, activated macrophages, fibroblasts, and smooth-muscle cells. Endoglin has a role in the development of the cardiovascular system and in vascular remodeling. Its expression is regulated during heart development. CD105 is highly expressed in endothelial cells during tumor angiogenesis and inflammation, with weak or negative expression in vascular endothelium of normal tissues. Angiogenesis is a promising prognostic marker in a variety of tumors. Endoglin is a more specific and sensitive marker for tumor angiogenesis than CD31 or CD34, as it labels only newly-formed blood vessels and may serve as a prognostic marker for Prostate Adenocarcinoma, and cancers of the lung, stomach, breast, and brain.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Angiogenesis, Cardiovascular, Endothelial Cell Marker, Hematopoietic Stem Cells, Mesenchymal Stem Cell Differentiation

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.