

Mouse Endoglin/CD105 Monoclonal Antibody | anti-ENG antibody

Endoglin/CD105 (Angiogenesis Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215474	Mouse	Human, Monkey, Horse, Pig, Rat	Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

Endoglin/CD105; Monoclonal Antibody; Endoglin/CD105 (Angiogenesis Marker); CD105; END; Endoglin; Eng; HHT1; S-endoglin; anti-ENG antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Monkey, Horse, Pig, Rat
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	ENG/1621
Specificity	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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA at 1.0mg/ml
Form/Format	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.
Sequence Length	625
Applicable Applications for anti-ENG antibody	IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Immunogen	Recombinant extracellular fragment of Human Endoglin protein exact sequence is proprietary)
Cellular Localization	Cell Surface
Hu-chromosome Location	9q34.11
Positive Control	HeLa, A431 or HL-60 cells.
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis Purified Endoglin / CD105 Mouse Monoclonal Antibody (ENG/1621).Confirmation of Integrity and Purity of Antibody.



FCM/FACS (Flow Cytometry)
Flow Cytometric Analysis of trypsinized PFA-fixed HeLa cells. Endoglin / CD105 Mouse Monoclonal Antibody (ENG/1621) followed by goat anti-mouse IgG-CF488 (Blue); Isotype control (Red).



IF (Immunofluorescence)
Immunofluorescent staining of PFA-fixed HeLa cells with Endoglin / CD105 Mouse Monoclonal Antibody (ENG/1621) followed by goat anti-mouse IgG-CF488 (Green).

ADDITIONAL INFORMATION

References	Altomonte, M., et al. 1996. Expression and structural features of Endoglin (CD105), a transforming growth factor 3 binding protein, in human melanoma. Br. J. Cancer 74: 1586-1591.
------------	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557555
NCBI GeneID	2022
NCBI Accession #	NP_000109.1
NCBI GenBank Nucleotide #	NP_000109.1
UniProt Accession #	P17813
Molecular Weight	80kDa (Monomer); 160kDa (Homodimer)
NCBI Official Full Name	endoglin isoform 2
NCBI Official Synonym Full Names	endoglin
NCBI Official Symbol	ENG
NCBI Official Synonym Symbols	END; HHT1; ORW1
NCBI Protein Information	endoglin
UniProt Protein Name	Endoglin
UniProt Gene Name	ENG
UniProt Synonym Gene Names	END
UniProt Entry Name	EGLN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.