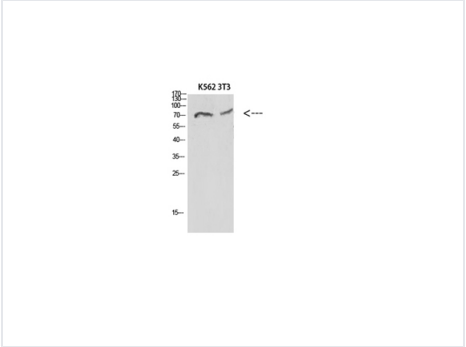
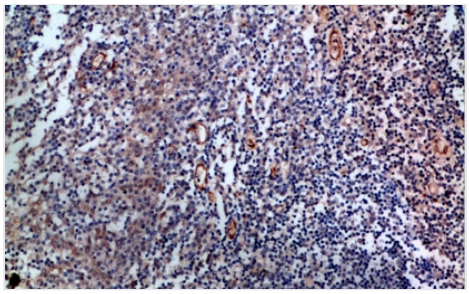
Endoglin (ENG) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Endoglin (ENG), Polyclonal Antibody
Full Product Name	Endoglin Polyclonal Antibody
Product Gene Name	anti-ENG antibody
Product Synonym Names	Endoglin (CD antigen CD105)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Affinity Purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	70kDa
OMIM	X72012 mRNA
3D Structure	ModBase 3D Structure for P17813
Immunogen	Synthetic peptide from human protein
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.4
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ENG antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin, ELISA (EIA)
Application Notes for anti-ENG antibody	WB: 1:500-2000 IHC: 1:500-200 ELISA: 1:10000-20000
Related Product Information for anti-ENG antibody	ENG (Endoglin) is a Protein Coding gene. Diseases associated with ENG include Telangiectasia, Hereditary Hemorrhagic, Type 1 and Hereditary Hemorrhagic Telangiectasia. Among its related pathways are Angiogenesis (CST) and HIF-1-alpha transcription factor network. GO annotations related to this gene include protein homodimerization activity and glycosaminoglycan binding. An important paralog of this gene is TGFBR3. This gene encodes a homodimeric transmembrane protein which is a major glycoprotein of the vascular endothelium. This protein is a component of the transforming growth factor beta receptor complex and it binds to the beta1 and beta3 peptides with high affinity. Mutations in this gene cause hereditary hemorrhagic telangiectasia, also known as Osler-Rendu-Weber syndrome 1, an autosomal dominant multisystemic vascular dysplasia. This gene may also be involved in preeclampsia and several types of cancer. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of anti-ENG antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ENG purchase	MBS2549221 is an antibody targeting ENG. Also known as Endoglin Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ENG antibody
Western Blot analysis of 3T3, KB, K562, Hela, 293T cells using Endoglin Polyclonal Antibody at dilution of 1:500.



Immunohistochemistry (IHC) of anti-ENG antibody
Immunohistochemistry of paraffin-embedded Human tonsil tissue using Endoglin Polyclonal Antibody at dilution of 1:200.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ENG. It may not necessarily be applicable to this product.

NCBI GI #	4557555
NCBI GeneID	2022
NCBI Accession #	NP_000109.1
UniProt Primary Accession #	P17813
UniProt Secondary Accession #	Q14248; Q14926; Q5T9C0
UniProt Related Accession #	P17813
GenBank Nucleotide #	NM_000118.3
NCBI Official Full Name	endoglin isoform 2
NCBI Official Synonym Full Names	endoglin
NCBI Official Symbol	ENG
NCBI Official Synonym Symbols	END; HHT1; ORW1
UniProt Protein Name	Endoglin
UniProt Synonym Protein Names	CD_antigen: CD105
Protein Family	Endoglin
UniProt Gene Name	ENG
UniProt Synonym Gene Names	END
NCBI Protein Information	endoglin
NCBI Summary for ENG	This gene encodes a homodimeric transmembrane protein which is a major glycoprotein of the vascular endothelium. This protein is a component of the transforming growth factor beta receptor complex and it binds to the beta1 and beta3 peptides with high affinity. Mutations in this gene cause hereditary hemorrhagic telangiectasia, also known as Osler-Rendu-Weber syndrome 1, an autosomal dominant multisystemic vascular dysplasia. This gene may also be involved in preeclampsia and several types of cancer. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2013]

UniProt Comments for ENG	ENG: Major glycoprotein of vascular endothelium. May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors. Homodimer that forms an heteromeric complex with the signaling receptors for transforming growth factor-beta: TGFBR1 and/or TGFBR2. It is able to bind TGF-beta 1, and 3 efficiently and TGF-beta 2 less efficiently. Interacts with TCTEX1D4. Interacts with ARRB2. Endoglin is restricted to endothelial cells in all tissues except bone marrow. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Motility/polarity/chemotaxis; Receptor, misc. Chromosomal Location of Human Ortholog: 9q34.11 Cellular Component: external side of plasma membrane; extracellular space; focal adhesion; receptor complex Molecular Function: activin binding; galactose binding; glycosaminoglycan binding; protein binding; protein homodimerization activity; transforming growth factor beta binding; transforming growth factor beta receptor, cytoplasmic mediator activity; transmembrane receptor activity; type II transforming growth factor beta receptor binding Biological Process: artery morphogenesis; atrial cardiac muscle morphogenesis; BMP signaling pathway; branching involved in blood vessel morphogenesis; cell adhesion; central nervous system vasculogenesis; chronological cell aging; heart looping; negative regulation of cell migration; negative regulation of protein autophosphorylation; positive regulation of angiogenesis; positive regulation of BMP signaling pathway; positive regulation of collagen biosynthetic process; positive regulation of protein phosphorylation; positive regulation of transcription from RNA polymerase II promoter; regulation of transcription, DNA-templated; regulation of transforming growth factor beta receptor signaling pathway; response to corticosteroid stimulus; response to drug; smooth muscle development; sprouting angiogenesis; vasculogenesis; venous blood vessel morphogenesis Disease: Telangiectasia, Hereditary Hemorrhagic, Of Rendu, Osler, And Weber
Research Articles on ENG	**1.** this meta-analysis demonstrated that CD105 overexpression correlates to higher WHO grade and poor survival.
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