

Rabbit anti-Human ENG Polyclonal Antibody | anti-ENG antibody

ENG Antibody

CATALOG # AAA327130	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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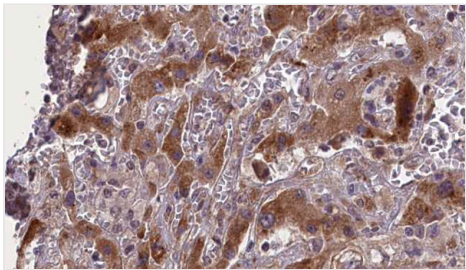
PRODUCT SYNONYMS

ENG; Polyclonal Antibody; ENG Antibody; AI528660; AI662476; CD 105; CD105; CD105 antigen; EGLN_HUMAN; END; Endoglin; Eng; FLJ41744; HHT1; ORW; ORW1; Osler Rendu Weber syndrome 1; RP11 228B15.2; S-endoglin; SN6; anti-ENG antibody

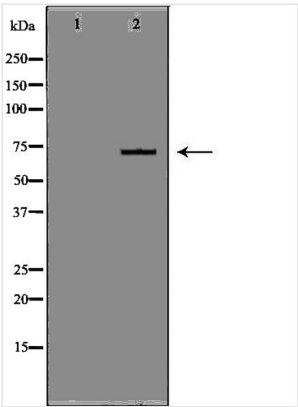
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	ENG antibody detects endogenous levels of total ENG
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	625
Applicable Applications for anti-ENG antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ENG
Subcellular Location	Membrane.
Tissue Specificity	Detected on umbilical vein endothelial cells (PubMed:10625079). Detected in placenta (at protein level) (PubMed:1692830). Detected on endothelial cells (PubMed:1692830).
Predicted Cross Reactivity	Pig, Zebrafish, Horse, Sheep, Dog, Chicken
Similarity	Pig (100%), Zebrafish (90%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA327130 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of MCF7 cell lysate, using ENG Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ENG antibody	Description: 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. Function: Vascular endothelium glycoprotein that plays an important role in the regulation of angiogenesis (PubMed:21737454, PubMed:23300529). Required for normal structure and integrity of adult vasculature (PubMed:7894484). Regulates the migration of vascular endothelial cells (PubMed:17540773). Required for normal extraembryonic angiogenesis and for embryonic heart development (By similarity). May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors (PubMed:1692830). Acts as TGF-beta coreceptor and is involved in the TGF-beta/BMP signaling cascade that ultimately leads to the activation of SMAD transcription factors (PubMed:8370410, PubMed:21737454, PubMed:22347366, PubMed:23300529). Required for GDF2/BMP9 signaling through SMAD1 in endothelial cells and modulates TGFB1 signaling through SMAD3 (PubMed:21737454, PubMed:22347366, PubMed:23300529). Subunit Structure: Homodimer; disulfide-linked (PubMed:8370410, PubMed:1326540, PubMed:21737454, PubMed:22347366, PubMed:28564608). Forms a heteromeric complex with the signaling receptors for transforming growth factor-beta: TGFBR1 and/or TGFBR2 (PubMed:1326540). It is able to bind TGFB1 and TGFB2 with high affinity, but not TGFB3 (PubMed:8370410, PubMed:1326540). Interacts with GDF2, forming a heterotetramer with a 2:2 stoichiometry (PubMed:21737454, PubMed:22347366, PubMed:28564608). Interacts with ACVRL1 (PubMed:22347366, PubMed:28564608). Can form a heteromeric complex with GDF2 and ACVRL1 (PubMed:28564608). Interacts with BMP10 (PubMed:21737454). Interacts with TCTEX1D4 (PubMed:16982625). Interacts with ARRB2 (PubMed:17540773). Similarity: The ZP domain mediates dimerization. The N-terminal OR region is composed of two intertwined domains (OR1 and OR2) with a common, novel fold. Each contains 12 beta-strands that form a parallel beta-helix-like structure, plus a single alpha-helix. The OR1 region mediates interaction with GDF2.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557555
NCBI GeneID	2022
NCBI Accession #	NP_000109.1
NCBI GenBank Nucleotide #	NM_000118.3
UniProt Accession #	P17813; Q14248; Q14926; Q5T9C0
Molecular Weight	Observed: 70 kDa Predicted: 71 kDa

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

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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/eng-antibody-immunohistochemistry-western-blot-elisa/327130>