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Endoglin Protein (ENG) (His tag)



Image



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Quantity:	100 μg	
Target:	Endoglin (ENG)	
Origin:	Mouse	
Source:	HEK-293 Cells	
Protein Type:	Recombinant	
Biological Activity:	Active	
Purification tag / Conjugate:	This Endoglin protein is labelled with His tag.	

Product Details

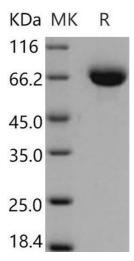
Purpose:

Sequence:	Met 1-Gly 580
Characteristics:	A DNA sequence encoding the mouse CD105 (NP_031958.2) extracellular domain (Met 1-Gly 580) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin Level:	$<$ 1.0 EU per μ g of the protein as determined by the LAL method.
Biological Activity Comment:	1. Measured by its ability to bind Human ENG-Fc in functional Elisa.2. Measured by its ability to latent TGFB1-His in functional Elisa.3. Measured by its ability to mouse ENG-His in functional Elisa.4. Measured by its ability to inhibit BMP9-induced alkaline phosphatase production by MC3T3E1 mouse chondrogenic cells. David, L. et al. (2007) Blood 109:1953. The ED50 for this effect is typically 5-15 ng/mL in the presence of 2 ng/mL of recombiant human BMP9.

Recombinant Mouse Endoglin/CD105 Protein (His Tag)(Active)

Target Details

Target:	Endoglin (ENG)		
Alternative Name:	Endoglin/CD105 (ENG Products)		
Background:	Background: Endoglin, also known as CD105, is a type I homodimeric transmembrane		
	glycoprotein with a large, disulfide-linked, extracellular region and a short, constitutively		
	phosphorylated cytoplasmic tail. Endoglin contains an RGD tripeptide which is a key recognition		
	structure in cellular adhesion,,suggesting a critical role for endoglin in the binding of endothelia		
	cells to integrins and/or other RGD receptors. Endoglin is highly expressed on vascular		
	endothelial cells, chondrocytes, and syncytiotrophoblasts of term placenta. It is also found on		
	activated monocytes, mesenchymal stem cells and leukemic cells of lymphoid and myeloid		
	lineages. As an accessory receptor for the TGF- β superfamily ligands, endoglin binds TGF- β 1		
	and TGF- β 3 with high affinity not by itself but by associating with TGF- β type I I receptor (T β RII		
	and activates the downstream signal pathways. In addition, in human umbilical vein endothelia		
	cells, ALK-1 is also a receptor kinase for endoglin threonine phosphorylation, and mutations in		
	either of the two genes result in the autosomal-dominant vascular dysplasia, hereditary		
	hemorrhagic telangiectasia (HHT). Endoglin has been regarded as a powerful biomarker of		
	neovascularization, and is associated with several solid tumor types.		
	Synonym: Al528660;Al662476;CD105;Endo;S-endoglin		
Molecular Weight:	61.2 kDa		
NCBI Accession:	NP_031958		
Application Details			
Restrictions:	For Research Use only		
Handling			
Format:	Lyophilized		
Reconstitution:	Please refer to the printed manual for detailed information.		
Buffer:	Lyophilized from sterile PBS, pH 7.4		
Storage:	4 °C,-20 °C,-80 °C		
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.		
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted		



Western Blotting

Image 1.