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Datasheet for ABIN7519934

Endoglin Protein (ENG) (Fc Tag,His tag)

Overview

Quantity:	50 µg
Target:	Endoglin (ENG)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Endoglin protein is labelled with Fc Tag,His tag.

Product Details

Purpose:	Active Recombinant Human Endoglin/CD105 Protein
Sequence:	ETVHCDLQPV GPERGEVTTYT TSQVSKGCVA QAPNAILEVH VLFLEFPTGP SQLELTQAS KQNGTWPREV LLVLSVNSSV FLHLQALGIP LHLAYNSSLV TFQEPPGVNT TELPSFPKTQ ILEWAAERGP ITSAAELNDP QSILLRLGQA QGSLSFCMLE ASQDMGRTLE WRPRTPALVR GCHLEGVAGH KEAHILRVLP GHSAGPRTVT VKVELSCAPG DLDVILQGP PPYVSWLIDA NHNMQIWTTG EYSFKIFPEK NIRGFKLPDT PQGLLGEARM LNASIVASFV ELPLASIVSL HASSCGRLQ TSPAPIQTTT PKDTCSPELL MSLIQTCKAD DAMTLVLKKE LVAHLKCTIT GLTFWDPSCE AEDRGDKFVL RSAYSSCGMQ VSASMISNEA VVNILSSSSP QRKKVHCLNM DSLSFQLGLY LSPHFLQASN TIEPGQQSFV QVRVSPSVSE FLLQLDSCHL DLGPEGGTVE LIQGAAKGN CVSLLSPSPE G DPRFSLLH FYTVPIPKTG TLSCTVALRP KTGSQDQEVH RTVFMRLNII SPDLSGCTSK G
Specificity:	Glu26-Gly586
Purity:	> 95 % by SDS-PAGE.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	1.Measured by its binding ability in a functional ELISA. Immobilized Human CD105 at 1 µg/mL (100 µL/well) can bind Human ACVR2B with a linear range of 0.49-43.03 ng/mL.2.Measured by its binding ability in a functional ELISA. Immobilized Human CD105 at 1 µg/mL (100 µL/well) can bind Human TGFBR2 with a linear range of 0.49-287.55 ng/mL.

Target Details

Target:	Endoglin (ENG)
Alternative Name:	Endoglin/CD105 (ENG Products)
Background:	<p>Description: 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 endothelial 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-β1 and TGF-β3 with high affinity not by itself but by associating with TGF-β type II receptor (TβRII) and activates the downstream signal pathways. In addition, in human umbilical vein endothelial 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.</p> <p>Name: END,HHT1,ORW1,CD105,ENG,endoglin</p>
Gene ID:	2022
UniProt:	P17813

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C, -80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.