

Datasheet for ABIN1589747

Endoglin Protein (ENG) (glycosylated, Monomer, Soluble) (His tag)[Go to Product page](#)

Overview

Quantity:	5 µg
Target:	Endoglin (ENG)
Protein Characteristics:	Monomer, glycosylated, Soluble
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Endoglin protein is labelled with His tag.

Product Details

Purpose:	CD105/Endoglin, soluble
Sequence:	ETVHCDLQPV GPERGEVTTYT TSQVSKGCVA QAPNAILEVH VLFLEFPTGP SQLELTLQAS KQNGTWPREV LLVLSVNSSV FLHLQALGIP LHLAYNSSLV TFQEPGVNT TELPSFPKTQ ILEWAAERGP ITSAAEELNDP QSILLRLGQA QGSLSFMCLE ASQDMGRTLE WRPRTPALVR GCHLEGVAGH KEAHILRVLP GHSAGPRTVT VKVELSCAPG DLDAVLILQG PPYVSWLIDA NHNMQIWTTG EYSFKIFPEK NIRGFKLPDT PQGLLGEARM LNASIVASFV ELPLASIVSL HASSCGRLQ TSPAPIQTP PKDTCSPELL MSLIQTKCAD DAMTLVLKKE LVAHLKCTIT GLTFWDPSCE AEDRGDKFVL RSAYSSCGMQ VSASMISNEA VNILSSSSP QRKKVHCLNM DSLSFQLGLY LSPHFLQASN TIEPGQQSFV QVRVSPSVSE FLLQLDSCHL DLGPEGGTVE LIQGAAKGN CVSLLSPSPE G DPRFSLLH FYTVPIPKTG TLSCTVALRP KTGSQDQEVH RTVFMRLNII SPDLGCTSH HHHHH
Specificity:	Chromosomal location:9q33-q34.1
Characteristics:	Length (aa):565

Product Details

Purity: > 90 % by SDS-PAGE

Target Details

Target: Endoglin (ENG)

Alternative Name: CD105/Endoglin ([ENG Products](#))

Background: A cDNA sequence encoding the extracellular domain of human Endoglin (Met 1 - Leu 586) was expressed in insect cells. Human Endoglin is a disulfide-linked homodimeric protein. According to N-terminal sequence analysis, the primary structure of recombinant mature Endoglin starts at Glu 26. Endoglin has a calculated monomeric molecular mass of 61 kDa but as a result of glycosylation, migrates at approximately 70 - 75 kDa under reducing conditions in SDS-PAGE. Endoglin, also known as CD105, is a Type I integral membrane glycoprotein with a large, disulfide-linked, extracellular region and a short, constitutively phosphorylated, cytoplasmic tail. Two splice variants of human Endoglin, the S-Endoglin and L-Endoglin that differ in the length of their cytoplasmic tails have been identified. Endoglin is highly expressed on vascular endothelial cells, chondrocytes, and syncytiotrophoblasts of term placenta. It is also found on activated monocytes, bone marrow pro-erythroblasts, and leukemic cells of lymphoid and myeloid lineages. Human and mouse Endoglin share approximately 70 % and 97 % amino acid sequence identity in their extracellular and intracellular domains, respectively. Endoglin has been shown to be a powerful marker of neovascularization. It is also useful as a functional marker that defines long-term repopulating hematopoietic stem cells.

Synonyms: Endoglin, END, ORW, HHT1, ORW1, CD105

Molecular Weight: 70-75 kDa

Gene ID: 2022

NCBI Accession: [NM_000118](#), [NP_000109](#)

UniProt: [P17813](#)

Application Details

Comment: Soluble Receptors

Restrictions: For Research Use only

Handling

Format: Lyophilized

Handling

Reconstitution:	The lyophilized sCD105 is soluble in water and most aqueous buffers and should be reconstituted in PBS or medium to a concentration not lower than 50 µg/mL.
Buffer:	PBS
Storage:	-20 °C,-80 °C
Storage Comment:	Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted sCD105 should be stored in working aliquots at -20°C.
Expiry Date:	6 months