

Endoglin, murine recombinant protein

CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744, Endoglin

Catalog # PBV10298r

Specification**Endoglin, murine recombinant protein - Product info**

Primary Accession

[Q63961](#)

Calculated MW

75-85 kDa KDa

Endoglin, murine recombinant protein - Additional Info

Gene ID

Mm.225297

Gene Symbol

ENG

Other Names

CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744, Endoglin

Gene Source

Mouse

Source

Sf9 cells

Assay&Purity

SDS-PAGE; ≥95%

Assay2&Purity2

HPLC; ≥95%

Recombinant

Yes

Sequence

MDRGVLPLPITLLFVIYSFVPTTGLAERVGCDLQ
PVDPTRGEVTFSTTSQVSEGCVAQAANAVREHV
VLFLDFPGMLSHLELTQASKQNGTETQEVLV
LVSNNVVFVKFQAPEIPLHLAYDSSLVIFQGQP
RVNITVLPSTSRKQILDWAATKGAITSIALDD
PQSIVLQLGQDPKAPFLCLPEAHKDMGATLEW
QPRAQTPVQSCRLEGVSGHKEAYILRILPGSEA
GPRTVTVMELSCSTSGDAILILHGPPYVSWFIDI
NHSMQILTTGEYSVKIFPGSKVKGVELPDTPQG
LIAEARKLNASIVTSFVELPLVSNVSLRASSCGG
VFQTPAPVVTTTPKDTCSPLVLLMSLIQPKCGN
QVMTLALNKKHVQTLQCTITGLTFWDSSCQAE
DTDDHLVLSSAYSSCGMKVTAHVVSNEVIISFP
SGSPPLRKKVQCIDMDSLFSQLGLYLSPHFLQA
SNTIELGQQAFVQVSVSPLTSEVTVQLDSCHLD
LGPEGDMVELIQSRTAKGSCVTLLSPSPEGDPR
FSFLLRVYMVPTPTAGTLSCNLALRPSTLSQEV
YKTVSMRLNIVSPDLS

Target/Specificity

Endoglin

Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS to a concentration ≥ 100 µg/ml.
This solution can then be diluted into other aqueous buffers.

Format

Lyophilized protein

Storage

-20°C; Lyophilized from sterile solution without additives

Endoglin, murine recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Endoglin, murine recombinant protein - Images

Endoglin, murine recombinant protein - Background

Endoglin is a type I membrane glycoprotein located on cell surfaces and is part of the TGF beta receptor complex. The protein consists of a homodimer of 180 kDa with disulfide links. It has been found on endothelial cells, activated macrophages, fibroblasts, and smooth muscle cells. Endoglin has been found to be part of the TGF-beta1 receptor complex and may be involved in the binding of TGF-beta1, TGF-beta3, activin-A, BMP-2, and BMP-7. It has been postulated that endoglin is involved in the cytoskeletal organization affecting cell morphology and migration. Endoglin has a role in the development of the cardiovascular system and in vascular remodeling. Its expression is regulated during heart development. CD105 Mouse Recombinant extracellular domain produced in baculovirus is a homodimeric, glycosylated, polypeptide containing 581 amino acids and having a molecular mass of 61 kDa but as a result of glycosylation, migrates at 75-85 kDa under reducing conditions in SDS-PAGE. Based on N-terminal sequence analysis, the primary structure of recombinant mature Endoglin starts at Glu 26. The CD105 is fused to a C-terminal His-tag (6xHis) and purified by proprietary chromatographic techniques.

Endoglin, murine recombinant protein - References

Ge A.Z., et al. Gene 138:201-206(1994).
St Jacques S., et al. Endocrinology 134:2645-2657(1994).
Church D.M., et al. PLoS Biol. 7:E1000112-E1000112(2009).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Ray B.N., et al. Carcinogenesis 31:435-441(2010).