

#3290 Store at -20°C

CD105/Endoglin Antibody


Cell Signaling
TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	M	Transfected Only	79, 81	Rabbit	#Q63961	13805

Product Usage Information
Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

CD105/Endoglin Antibody detects transfected levels of mouse CD105/Endoglin protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro430 of mouse CD105/Endoglin. Antibodies are purified by peptide affinity chromatography.

Background

CD105/Endoglin is an auxiliary receptor for the TGF-β receptor complex, functioning in related signaling pathways (1,2). CD105/Endoglin is a transmembrane protein that exists as a disulfide-linked homodimer. It is mainly expressed in vascular and connective tissues and in endothelial and stromal cells. Upregulated CD105/endoglin expression has been reported during wound healing and tumor vascularization, and in inflammatory tissues and developing embryos (1-4). Mutations in CD105/endoglin have been found to be a causal factor of hereditary hemorrhagic telangiectasia (HHT), a disease characterized by malformation of vascular structure (5,6). The importance of this protein for normal and tumor vascular function makes it a good marker for endothelial cell proliferation as well as a potential therapeutic target in cancer (4-6).

Background References

1. Bernabeu, C. et al. (2007) *J Cell Biochem* 102, 1375-88.
2. Zhu, Y. et al. (2003) *Stroke* 34, 2483-8.
3. Quintanilla, M. et al. (2003) *Oncogene* 22, 5976-85.
4. Dallas, N.A. et al. (2008) *Clin Cancer Res* 14, 1931-7.
5. ten Dijke, P. et al. (2008) *Angiogenesis* 11, 79-89.
6. Fernández-L, A. et al. (2006) *Clin Med Res* 4, 66-78.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer
IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key
WB: Western Blotting

Cross-Reactivity Key
H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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