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#4335

## CD105/Endoglin (D50G1) Rabbit mAb

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

<b>Applications:</b> W	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 95	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P17813	<b>Entrez-Gene Id:</b> 2022
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### 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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

CD105/Endoglin (D50G1) Rabbit mAb detects endogenous levels of total CD105/Endoglin protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala463 of human CD105/Endoglin protein.

### 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

- Bernabeu, C. et al. (2007) *J Cell Biochem* 102, 1375-88.
- Zhu, Y. et al. (2003) *Stroke* 34, 2483-8.
- Quintanilla, M. et al. (2003) *Oncogene* 22, 5976-85.
- Dallas, N.A. et al. (2008) *Clin Cancer Res* 14, 1931-7.
- ten Dijke, P. et al. (2008) *Angiogenesis* 11, 79-89.
- 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

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human

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