

Store at -20C
#4335

CD105/Endoglin (D50G1) Rabbit mAb



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #P17813	Entrez-Gene Id: 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	<ol style="list-style-type: none"> Bernabeu, C. et al. (2007) <i>J Cell Biochem</i> 102, 1375-88. Zhu, Y. et al. (2003) <i>Stroke</i> 34, 2483-8. Quintanilla, M. et al. (2003) <i>Oncogene</i> 22, 5976-85. Dallas, N.A. et al. (2008) <i>Clin Cancer Res</i> 14, 1931-7. ten Dijke, P. et al. (2008) <i>Angiogenesis</i> 11, 79-89. Fernández-L, A. et al. (2006) <i>Clin Med Res</i> 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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