

Anti-Endoglin / CD105 (Angiogenesis Marker) ENG Monoclonal Antibody

Catalog Number: M02997

About ENG

CD105/Endoglin is a Type I membrane glycoprotein located on cell surfaces and is part of the TGF-beta receptor complex. This protein has been found on endothelial cells, activated macrophages, fibroblasts, and smooth-muscle cells. Endoglin has a role in the development of the cardiovascular system and in vascular remodeling. Its expression is regulated during heart development. CD105 is highly expressed in endothelial cells during tumor angiogenesis and inflammation, with weak or negative expression in vascular endothelium of normal tissues. Angiogenesis is a promising prognostic marker in a variety of tumors. Endoglin is a more specific and sensitive marker for tumor angiogenesis than CD31 or CD34, as it labels only newly-formed blood vessels and may serve as a prognostic marker for Prostate Adenocarcinoma, and cancers of the lung, stomach, breast, and brain.

Overview

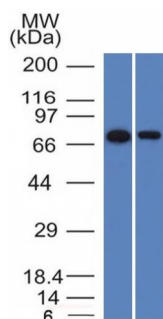
Product Name	Anti-Endoglin / CD105 (Angiogenesis Marker) ENG Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-Endoglin / CD105 (Angiogenesis Marker) ENG Monoclonal Antibody (Catalog # M02997). Tested in Flow Cytometry, IF, WB applications. This antibody reacts with Human.
Conjugate	Biotin
Application	Flow Cytometry, IF, WB
Clonality	Monoclonal Clone: ENG/1327
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P17813

Technical Details

Immunogen	Recombinant human Endoglin protein fragment (aa74-251) (exact sequence is proprietary)
Predicted Reactive Species	Pig, Rabbit
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG1, kappa
Form	Liquid

Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry (0.5-1ug/million cells in 0.1ml)</p> <p>Immunofluorescence (1-2ug/ml)</p> <p>Western Blot (1-2ug/ml for 60 minutes at RT)</p> <p>Optimal dilution for a specific application should be determined.</p>

Anti-Endoglin / CD105 (Angiogenesis Marker) ENG Monoclonal Antibody (M02997) Images



Western Blot of HeLa and A431 cell lysates with Anti-Endoglin/CD105 Mouse Monoclonal Antibody (ENG/1327).

4 Publications Citing This Product

1. PubMed ID: 25849455, Li J, Zeng G, Qi Y, Tang X, Zhang J, Wu Z, Liang J, Shi L, Liu H, Zhang P. Plos One. 2015 Apr 7;10(4):E0123264. Doi: 10.1371/Journal.Pone.0123264. Ecollection 2015. Xenotransplantation Of Human Adipose-Derived Stem Cells In Zebrafish Embryos.
2. PubMed ID: 19417736, Ren Sx, Ren Zj, Zhao My, Wang Xb, Zuo Sg, Yu F. Acta Pharmacol Sin. 2009 May;30(5):637-45. Doi: 10.1038/Aps.2009.44. Antitumor Activity Of Endogenous Mflt4 Displayed On A T4 Phage Nanoparticle Surface.
3. PubMed ID: 24339730, Dai J, Li Y, Zhou H, Chen J, Chen M, Xiao Z. Int J Biol Sci. 2013 Nov 21;9(10):1089-98. Doi: 10.7150/Ijbs.7367. Ecollection 2013. Genistein Promotion Of Osteogenic Differentiation Through Bmp2/Smad5/Runx2 Signaling.

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