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Anti-Endoglin / CD105 Reference Antibody (carotuximab-MMAE)

Recombinant Antibody
Catalog # APR10001

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P17813
Reactivity	Human
Clonality	ADC
Isotype	IgG1
Calculated MW	70578

Additional Information

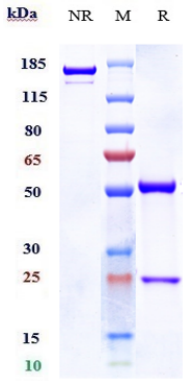
Target/Specificity	Endoglin / CD105
Endotoxin	
Conjugation	MMAE
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Protein Information

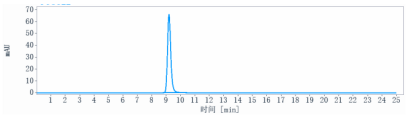
Name	ENG
Synonyms	END
Function	Vascular endothelium glycoprotein that plays an important role in the regulation of angiogenesis (PubMed:21737454, PubMed:23300529). Required for normal structure and integrity of adult vasculature (PubMed:7894484). Regulates the migration of vascular endothelial cells (PubMed:17540773). Required for normal extraembryonic angiogenesis and for embryonic heart development (By similarity). May regulate endothelial cell shape changes in response to blood flow, which drive vascular remodeling and establishment of normal vascular morphology during angiogenesis (By similarity). May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors (PubMed:1692830). Acts as a TGF-beta coreceptor and is involved in the TGF-beta/BMP signaling cascade that ultimately leads to the activation of SMAD transcription factors (PubMed:21737454, PubMed:22347366, PubMed:23300529, PubMed:8370410). Required for GDF2/BMP9 signaling through SMAD1 in endothelial cells and modulates TGFB1 signaling through SMAD3 (PubMed:21737454, PubMed:22347366, PubMed:23300529).

Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Detected on umbilical veil endothelial cells (PubMed:10625079). Detected in placenta (at protein level) (PubMed:1692830). Detected on endothelial cells (PubMed:1692830)

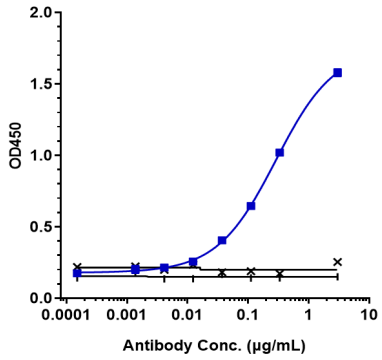
Images



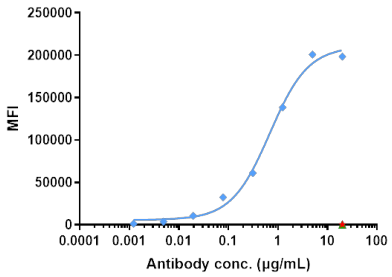
Anti-Endoglin / CD105 Reference Antibody (carotuximab-MMAE) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 90%.



The purity of Anti-Endoglin / CD105 Reference Antibody (carotuximab-MMAE) is more than 95%, determined by SEC-HPLC.



Immobilized human CD105 His at 2 ug/mL can bind carotuximab-MMAE, EC50=0.2864 ug/mL.



Human Endoglin / CD105 HEK293 Cell Line were stained with Anti-Endoglin / CD105 Reference Antibody (carotuximab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS,The EC50 is 0.69 μg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.