

KD-Validated Anti-CD105 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1227

Product Information

Application	WB, ICC
Primary Accession	P17813
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB3745
Calculated MW	70578
Gene Name	ENG
Aliases	ENG; Endoglin; END; HHT1; CD105 Antigen; CD105; ORW1; Osler-Rendu-Weber Syndrome 1; Soluble Endoglin; ORW
Immunogen	A synthesized peptide derived from human CD105

Additional Information

Gene ID	2022
Other Names	Endoglin, CD105, ENG, END

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 vein endothelial cells (PubMed:10625079). Detected in placenta (at protein level) (PubMed:1692830). Detected on endothelial cells (PubMed:1692830)

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