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Product datasheet for AM32279PU-N

CD105 (ENG) Mouse Monoclonal Antibody [Clone ID: E9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	E9
Applications:	ELISA, FN, IHC, IP, WB
Recommended Dilution:	Western Blot. Immunoassay. Flow Cytometry. Immunoprecipitation. Immunohistochemistry on frozen and paraffin sections.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	HUVEC
Specificity:	The monoclonal antibody E9 reacts with Endoglin a 190 kDa homodimeric transmembrane glycoprotein composed of disulfide-linked subunits. Anti-CD105 monoclonal antibody E9 and anti-CD34 monoclonal antibody have been successfully used to quantify MVD in human breast carcinoma.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction (0.2 µm filtered) Stabilizer: 0,1% BSA Preservative: 0.02% sodium azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	endoglin

View online »

Database Link: Entrez Gene 2022 Human
P17813

Background: The external domain binds TGF-beta1 and -beta3 isoforms with high affinity. Two different isoforms (L and S) of CD105 with capacity to bind TGF-beta have been characterized which differ in the amino acid composition of their cytoplasmic tails. Mutations in the gene encoding endoglin have been linked to the human disease hereditary hemorrhagic telangiectasia type 1 (HHT1) a vascular disorder characterized by localized vascular dysplasia and a tendency towards arteriovenous malformations. Mice expressing a single CD105 allele develop external signs of disease similar to human HHT1, supporting the haploinsufficiency model for HHT1. Mice lacking endoglin die from defective angiogenesis characterized by failure of vascular smooth muscle investment of embryonic blood vessels, suggesting a defect in vascular
smooth muscle cell development. Microvessel density (MVD) has been reported to be an independent prognostic indicator of outcome in a variety of human malignancies, with increased MVD correlating with shorter overall
and relapse-free survival rates. The MVD counts using anti-CD105 antibody significantly correlated with overall and disease-free survival.

Synonyms: ENG, END, HHT1, ORW, ORW1