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Product datasheet for AM03092PU-N

CD105 (ENG) Mouse Monoclonal Antibody [Clone ID: MEM-229]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-229
Applications:	FC, IF, IHC, WB
Recommended Dilution:	**Flow Cytometry:** 10 µg/ml. *Positive Control:* Kg1 Human acute myelogenous leukemia cell line. **Western Blotting** (Non-Reducing Conditions). **Immunocytochemistry.** **Immunohistochemistry on Frozen Sections:** 1/200 (Acetone Fixation).
Reactivity:	Human, Porcine
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant Vaccinia virus containing the Human CD105 (L-isoform) cDNA.
Specificity:	The antibody *MEM-229* recognizes CD105 (Endoglin), a 180 kDa type I integral membrane homodimer glycoprotein expressed on vascular endothelial cells (small and large vessels), activated monocytes and tissue macrophages, stromal cells of certain tissues including bone marrow, pre-B lymphocytes in fetal marrow and erythroid precursors in fetal and adult bone marrow; it is also present on syncytiotrophoblast on placenta throughout pregnancy.
Formulation:	PBS, pH~7.4 State: Purified State: Liquid purified IgG fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	lot specific
Purification:	Protein-A Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. **DO NOT FREEZE!**
Stability:	Shelf life: one year from despatch.

View online »

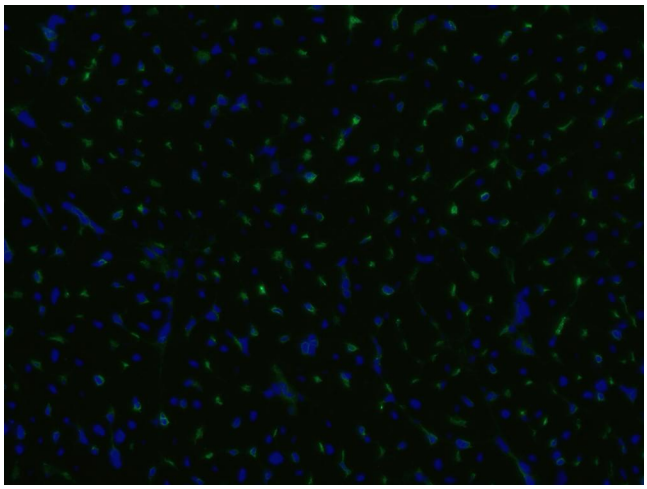
Gene Name: endoglin

Database Link: Entrez Gene 2022 Human
P17813

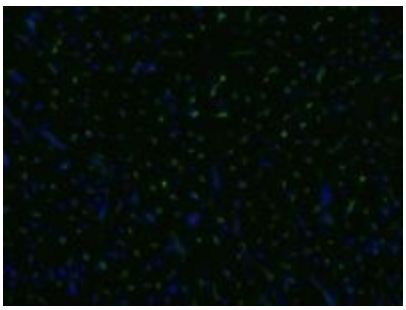
Background: CD105 (Endoglin) is a homodimeric transmembrane glycoprotein serving in presence of TGFβR-2 as a receptor for TGFβ-1 and TGFβ-3. CD105 is highly expressed on endothelial cells and promotes angiogenesis during wound healing, infarcts and in a wide range of tumours and its gene expression is stimulated by hypoxia. CD105 prevents apoptosis in hypoxic endothelial cells and also antagonises the inhibitory effects of TGFβ-1 on vascular endothelial cell growth and migration. Normal cellular levels of CD105 are required for formation of new blood vessels.

Synonyms: ENG, END, HHT1, ORW, ORW1

Product images:



Immunofluorescence staining of an infarcted porcine heart with anti-CD105 (MEM-229; green); cell nuclei stained with DAPI (blue). Primary antibody dilution: 5 ug/ml.



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