

Product datasheet for **AM03092BT-N**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-229
Applications:	FC, IF
Recommended Dilution:	Indirect immunofluorescence analysis by Flow Cytometry.
Reactivity:	Human, Porcine
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant Vaccinia virus containing the Human CD105 (L-isoform) cDNA.
Specificity:	This antibody 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 with 0.2 % BSA Label: Biotin State: Liquid purified Ig fraction Preservative: 15 mM Sodium Azide Label: Conjugated with -LC-NHS under optimum conditions. The reagent is free of unconjugated biotin
Concentration:	lot specific
Conjugation:	Biotin
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	endoglin
Database Link:	Entrez Gene 2022 Human P17813



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Background:

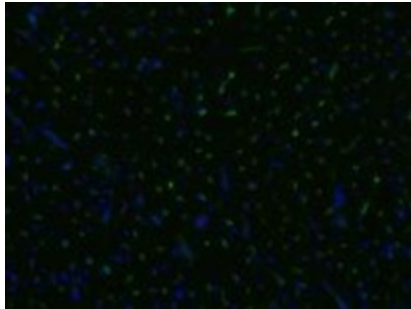
CD105 (Endoglin) is a homodimeric transmembrane glycoprotein serving in presence of TGFbetaR-2 as a receptor for TGFbeta-1 and TGFbeta-3. CD105 is highly expressed on endothelial cells and promotes angiogenesis during wound healing, infarcts and in a wide range of tumours and its gene expression is stimulated by hypoxia. CD105 prevents apoptosis in hypoxic endothelial cells and also antagonises the inhibitory effects of TGFbeta-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

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Product images:

Immunofluorescence staining of an infarcted porcine heart with anti-CD105 (MEM-229; green); cell nuclei stained with DAPI (blue).