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Product datasheet for SM3078APC

CD105 (ENG) Mouse Monoclonal Antibody [Clone ID: MEM-226]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-226
Applications:	FC
Recommended Dilution:	**Flow Cytometry analysis** of human blood cells using 10 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension.
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant Vaccinia virus containing the human CD105 cDNA
Specificity:	The antibody MEM-226 reacts with CD105 (Endoglin), a 180 kDa type I homodimerizing membrane 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:	Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent Label: APC State: Liquid Ig fraction Label: Cross-linked Allophycocyanin
Purification:	Size-exclusion chromatography
Conjugation:	APC
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
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 TGFbR-2 as a receptor for TGFb-1 and TGFb-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 TGFb-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