

## Product datasheet for **SM3078P**

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

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-226
Applications:	FC, IP, WB
Recommended Dilution:	Flow cytometry: Recommended dilution: 1-5 µg/ml. Western blotting: Non-reducing conditions.
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant Vaccinia Virus containing human CD105 cDNA
Specificity:	The antibody 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) with 15 mM sodium azide, approx. pH 7.4 State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography; purity: > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	endoglin
Database Link:	<a href="#">Entrez Gene 2022 Human P17813</a>



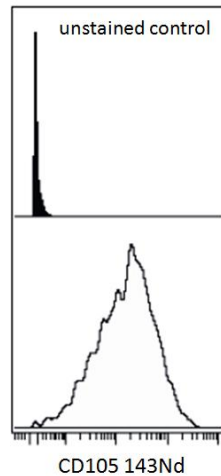
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**Background:**

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

**Product images:**

Surface staining (mass cytometry) of hTERT cell line with anti-human CD105 (MEM-226) 143Nd. Gated on singlets.