OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AM03092RP-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:	Flow Cytometry analysis of Human blood cells using 20 µl reagent/100 µl of whole blood or 10e6 cells in a suspension.
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. **Negative Species:** Canine (Dog), Equine (Horse).
Formulation:	Phosphate buffered saline (PBS) containing 15 mM Sodium Azide and 0.2% (w/v) high-grade protease free BSA as a stabilizing agent. Label: PE State: Liquid purified Ig fraction Label: Conjugated with R-Phycoerythrin
Purification:	Size-Exclusion Chromatography
Conjugation:	PE
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

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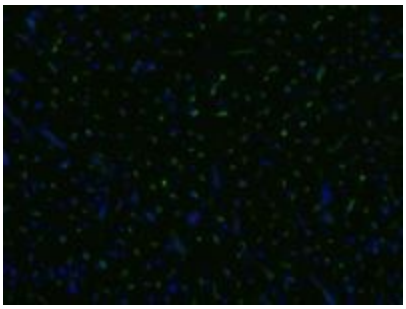
Database Link: Entrez Gene 2022 Human
P17813

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.

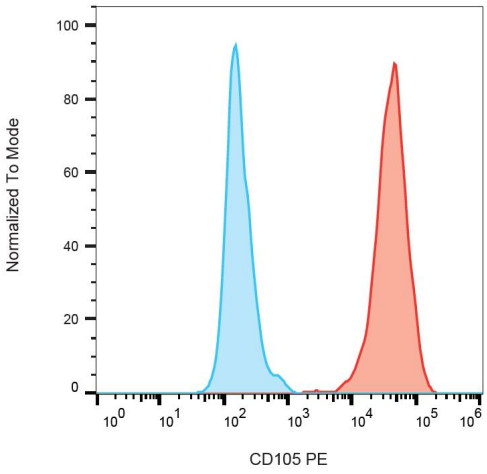
Synonyms: ENG, END, HHT1, ORW, ORW1

Note: The content of a vial (2 ml) is sufficient for 25 tests.

Product images:



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



Surface staining of CD105 on Huvec cells with anti-CD105 (MEM-229) PE.