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Purified Mouse Anti-CD105 Monoclonal Antibody

CLX240AP

Lot:

Size: 0.1 mg

Clone: MEM-229

Isotype: Mouse IgG2a

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.

Immunogen: Recombinant *Vaccinia* virus containing the human CD105 (L-isoform) cDNA.

Species Reactivity: Human, Porcine

Application: **Flow Cytometry**
Recommended dilution: 10 µg/ml
Positive control: K562 human acute myelogenous leukemia cell line
Western Blotting
Application note: Non-reducing conditions.

Purity: > 95% (by SDS-PAGE)

Purification: Purified from ascites by protein-A affinity chromatography.

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Background: **CD105** (Endoglin) is a homodimeric transmembrane glycoprotein serving in presence of TGF betaR-2 as a receptor for TGF beta-1 and TGF beta-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 antagonizes the inhibitory effects of TGF beta-1 on vascular endothelial cell growth and migration. Normal cellular levels of CD105 are required for formation of new blood vessels.

Continued...

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References:

- *Zhu Y, Sun Y, Xie L, Jin K, Sheibani N, Greenberg DA: Hypoxic induction of endoglin via mitogen-activated protein kinases in mouse brain microvascular endothelial cells. *Stroke*. 2003 Oct; 34(10):2483-8.
- *Li C, Issa R, Kumar P, Hampson IN, Lopez-Novoa JM, Bernabeu C, Kumar S: CD105 prevents apoptosis in hypoxic endothelial cells. *J Cell Sci*. 2003 Jul 1; 116(Pt 13):2677-85.
- *Guo B, Slevin M, Li C, Parameshwar S, Liu D, Kumar P, Bernabeu C, Kumar S: CD105 inhibits transforming growth factor-beta-Smad3 signalling. *Anticancer Res*. 2004 May-Jun; 24(3a):1337-45.
- *Warrington K, Hillarby MC, Li C, Letarte M, Kumar S: Functional role of CD105 in TGF-beta1 signalling in murine and human endothelial cells. *Anticancer Res*. 2005 May-Jun; 25(3B):1851-64.
- *Piao M, Tokunaga O: Significant expression of endoglin (CD105), TGFbeta-1 and TGF beta R-2 in the atherosclerotic aorta: an immunohistological study. *J Atheroscler Thromb*. 2006 Apr; 13(2):82-9.

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