

anti-human CD105

Monoclonal Antibody MEM-226 to CD105 (Human)

Cat-No: **21271051**

100 µg in 100 µl

Clone: MEM-226

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.

Isotype subclass: Mouse IgG2a

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

Purity: > 95% (by SDS-PAGE)

Physical state: Liquid

Buffer/Additives/Preservative: PBS with 15 mM sodium azide (pH 7.4).

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application: Flow Cytometry
Immunoprecipitation
Western Blotting: non reducing conditions

References:

- *Zhu Y and others: Stroke. 2003 Oct;34(10):2483-8.
- *Li C and others: J Cell Sci. 2003 Jul 1;116(Pt 13):2677-85.
- *Guo B and others: Anticancer Res. 2004 May-Jun;24(3a):1337-45.
- *Warrington K and others: Anticancer Res. 2005 May-Jun;25(3B):1851-64.
- *Piao M, Tokunaga O: J Atheroscler Thromb. 2006 Apr;13(2):82-9.

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

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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