

## anti-human CD105

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.

**CD105** (Endoglin) is a homodimeric transmembrane glycoprotein serving in presence of TGF $\beta$ R-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 antagonises 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.

<b>Clone:</b>	MEM-226
<b>Isotype:</b>	Mouse IgG2a
<b>Physical state:</b>	Purified from ascites by protein-A affinity chromatography
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Buffer:</b>	PBS with 15 mM sodium azide (pH 7.4)
<b>Storage Instruction:</b>	Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
<b>Application:</b>	Flow Cytometry, Immunoprecipitation, Western Blotting (non reducing conditions)
<b>Reference:</b>	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.
<b>Quantity:</b>	0.1 mg
<b>Order N°:</b>	H12214

**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).

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