

TECHNICAL DATA SHEET

CyFlow™ CD105 Purified Anti-Hu; Clone MEM-229

REF BF597127

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD105
Alternative Names	Endoglin
Clone	MEM-229
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human, Pig
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Recombinant Vaccinia virus containing the human CD105 (L-isoform) cDNA

Specificity

The mouse monoclonal antibody MEM-226 recognizes CD105 antigen, a 90 kDa type I integral membrane homodimer glycoprotein expressed on vascular endothelial cells (small and large vessels),

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activated monocytes and tissue macrophages, stromal cells of certain tissues including bone marrow, pre-B lymphocytes in fetal bone marrow and erythroid precursors in fetal and adult bone marrow; it is also present on syncytiotrophoblast on placenta throughout pregnancy.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Western blot
- Immunohistochemistry (frozen sections)
- Immunocytochemistry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

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

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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