TECHNICAL DATA SHEET

CyFlow™ CD105 Purified
Anti-Ms; Clone MJ7/18

REF **AP974049**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD105
Alternative Names	Endoglin
Clone	MJ7/18
Clonality	monoclonal
Format	Purified
Host / Isotype	Rat / IgG2a
Species Reactivity	Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Inflamed mouse skin

Specificity

The rat monoclonal antibody MJ7/18 recognizes CD105 antigen, a 90 kDa type I homodimerizing membrane glycoprotein expressed on vascular endothelial cells (small and large vessels), activated

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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.

Application

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

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

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈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 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 antagonizes 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.

References

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

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