

## ARG53753 anti-CD105 / Endoglin antibody [MEM-226] (APC)

Package: 100 tests  
Store at: 4°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | APC-conjugated Mouse Monoclonal antibody [MEM-226] recognizes CD105   |
| Tested Reactivity   | Hu  |
| Tested Application  | FACS  |
| Specificity         | The clone MEM-226 reacts with CD105 (Endoglin), a 90 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._x000D_ |
| Host                | Mouse   |
| Clonality           | Monoclonal  |
| Clone               | MEM-226   |
| Isotype             | IgG2a   |
| Target Name         | CD105 / Endoglin  |
| Species             | Human   |
| Immunogen           | Recombinant Vaccinia virus containing the human CD105 cDNA.   |
| Conjugation         | APC   |
| Alternate Names     | CD antigen CD105; HHT1; Endoglin; ORW1; END   |

### Application Instructions

| Application table | Application  | Dilution                      |
|-------------------|--|-------------------------------|
|                   | FACS   | 10 µl / 10 <sup>6</sup> cells |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                               |

### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification Note   | The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary. |
| Buffer              | PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA   |
| Preservative        | 15 mM Sodium azide  |
| Stabilizer          | 0.2% (w/v) high-grade protease free BSA   |
| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be                           |

gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Database links

[GeneID: 2022 Human](#)

[Swiss-port # P17813 Human](#)

Gene Symbol

ENG

Gene Full Name

endoglin

Background

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

Function

Major glycoprotein of vascular endothelium. Involved in the regulation of angiogenesis. May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors. Acts as TGF-beta coreceptor and is involved in the TGF-beta/BMP signaling cascade. Required for GDF2/BMP9 signaling through SMAD1 in endothelial cells and modulates TGF-beta1 signaling through SMAD3. [UniProt]

Research Area

Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody; Developmental Biology antibody; Immune System antibody

Calculated Mw

71 kDa