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## 30-1313: Anti-CD105 / Endoglin Monoclonal Antibody (Clone:MEM-229)

Clonality: Monoclonal Clone Name: MEM-229

Application :ICC,IHC,FACS,WBReactivity :Pig,HumanConjugate :Unconjugated

Gene : ENG
Gene ID : 2022
Uniprot ID : P17813
Format : Purified
Alternative Name : ENG,END
Isotype : Mouse IgG2a

Immunogen Information: Recombinant Vaccinia virus containing the human CD105 (L-isoform) cDNA.

## **Description**

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.

## **Product Info**

Amount: 0.1 mg

**Purification :** Purified by protein-A affinity chromatography

Content: 1mg/ml, Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

**Storage condition :** Store at 2-8°C. Do not freeze.

## **Application Note**

Flow cytometry: Recommended dilution: 2-6 µg/ml; positive control: Kg1 human acute myelogenous leukemia cell line.

Immunohistochemistry (frozen sections): Recommended dilution: 1:200, acetone fixation.

Western blotting: Non-reducing conditions.



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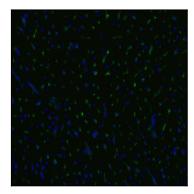


Figure 1: Immunofluorescence staining of an infarcted porcine heart with anti-CD105 (MEM-229; green); cell nuclei stained with DAPI (blue).