

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	MEM-229
<b>Application :</b>	ICC,IHC,FACS,WB
<b>Reactivity :</b>	Pig,Human
<b>Conjugate :</b>	Unconjugated
<b>Gene :</b>	ENG
<b>Gene ID :</b>	2022
<b>Uniprot ID :</b>	P17813
<b>Format :</b>	Purified
<b>Alternative Name :</b>	ENG,END
<b>Isotype :</b>	Mouse IgG2a
<b>Immunogen Information :</b>	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

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-A affinity chromatography
<b>Content :</b>	1mg/ml, Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	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.

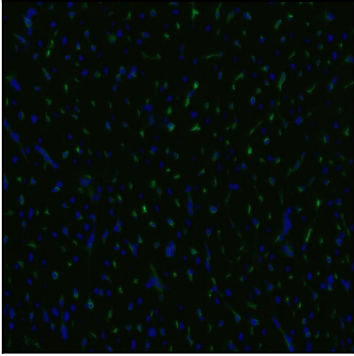


Figure 1: Immunofluorescence staining of an infarcted porcine heart with anti-CD105 (MEM-229; green); cell nuclei stained with DAPI (blue).