9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

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

Clonality :	Monoclonal
Clone Name :	MEM-229
Application :	ICC,IHC,FACS,WB
Reactivity :	Pig,Human
Conjugate :	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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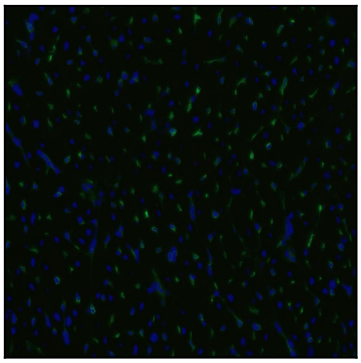


Figure 1: Immunofluorescence staining of an infarcted porcine heart with anti-CD105 (MEM-229; green); cell nuclei stained with DAPI (blue).

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