

ARG62700 anti-CD105 / Endoglin antibody [MEM-229]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [MEM-229] recognizes CD105 / Endoglin
Tested Reactivity	Hu, Pig
Tested Application	FACS, ICC/IF, IHC-Fr, WB
Specificity	The clone MEM-229 recognizes CD105 (Endoglin), a 90 kDa type I integral membrane homodimer 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.
Host	Mouse
Clonality	Monoclonal
Clone	MEM-229
Isotype	IgG2a
Target Name	CD105 / Endoglin
Species	Human
Immunogen	Recombinant Vaccinia virus containing the human CD105 (L-isoform) cDNA.
Conjugation	Un-conjugated
Alternate Names	CD antigen CD105; HHT1; Endoglin; ORW1; END

Application Instructions

Application table	Application	Dilution
	FACS	2 - 6 µg/ml
	ICC/IF	Assay-dependent
	IHC-Fr	1:200
	WB	Assay-dependent
Application Note	WB: Under non-reducing condition. IHC-Fr: Acetone fixation. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	FACS: Kg1 human acute myelogenous leukemia cell line	

Properties

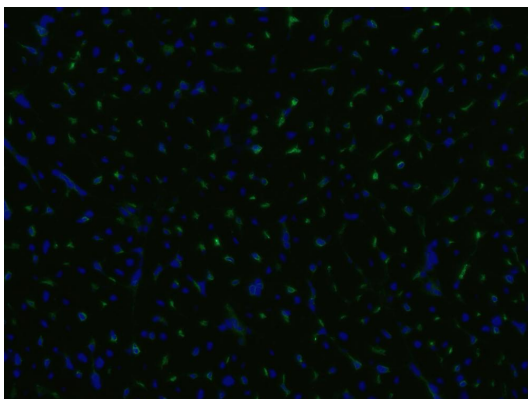
Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.

Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

Database links	GeneID: 2022 Human GeneID: 397096 Pig Swiss-port # P17813 Human Swiss-port # P37176 Pig
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

Images



ARG62700 anti-CD105 / Endoglin antibody [MEM-229] ICC/IF image

Immunofluorescence: Infarcted porcine heart stained with ARG62700 anti-CD105 / Endoglin antibody [MEM-229] (green). Cell nuclei were stained with DAPI (blue).