ARG62699
anti-CD105 / Endoglin antibody [MEM-226]

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [MEM-226] recognizes CD105 / Endoglin
Tested Reactivity	Hu
Tested Application	CyTOF®-candidate, FACS, IP, WB
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.
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	Un-conjugated
Alternate Names	CD antigen CD105; HHT1; Endoglin; ORW1; END

Application Instructions

Application table

Application	Dilution
CyTOF®-candidate	Assay-dependent
FACS	2 µg/ml
IP	Assay-dependent
WB	Assay-dependent

Application Note: WB: Under non-reducing condition.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

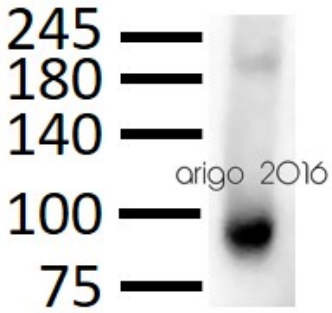
Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide

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

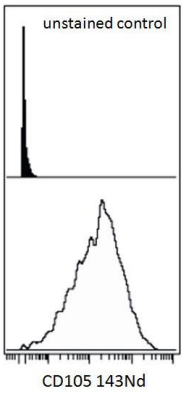
Database links	GeneID: 2022 Human Swiss-port # P17813 Human
Gene Symbol	ENG
Gene Full Name	endoglin
Background	CD105 (Endoglin) is a homodimeric transmembrane glycoprotein serving in presence of TGFbetaR-2 as a receptor for TGFbeta-1 and TGFbeta-3. CD105 is highly expressed on endothelial cells and promotes 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

Images



ARG62699 anti-CD105 / Endoglin antibody [MEM-226] WB image

Western blot: 30 µg of HUVEC cell lysate stained with ARG62699 anti-CD105 / Endoglin antibody [MEM-226] at 1:500 dilution.



ARG62699 anti-CD105 / Endoglin antibody [MEM-226] CyTOF image

CyTOF: hTERT cells were stained with ARG62699 anti-CD105 / Endoglin antibody [MEM-226] (143Nd). Singlet cells were gated for data analysis.