ARG65542
anti-CD106 / VCAM1 antibody [STA]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [STA] recognizes CD106 / VCAM1
Tested Reactivity	Hu
Tested Application	CyTOF®-candidate, ELISA, FACS, IHC-Fr, IP
Specificity	The clone STA recognizes CD106 antigen (VCAM-1), a 100-110 kDa type I membrane protein of the immunoglobulin superfamily, a crucial mediator of leukocyte adhesion, and a costimulation molecule. HLDA V; WS Code A013
Host	Mouse
Clonality	Monoclonal
Clone	STA
Isotype	IgG1
Target Name	CD106 / VCAM1
Species	Human
Immunogen	Human DS6 T cell line
Conjugation	Un-conjugated
Alternate Names	CD106; INCAM-100; Vascular cell adhesion protein 1; VCAM-1; CD antigen CD106; V-CAM 1

Application Instructions

Application table

Application	Dilution
CyTOF®-candidate	Assay-dependent
ELISA	Assay-dependent
FACS	4 - 6 µg/ml
IHC-Fr	Assay-dependent
IP	Assay-dependent

Application Note	IHC-Fr: Acetone fixation. ELISA: Capture mAb for soluble CD106. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	FACS: TNF-alpha activated HUVEC cells

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: 7412 Human Swiss-port # P19320 Human
Gene Symbol	VCAM1
Gene Full Name	vascular cell adhesion molecule 1
Background	CD106 / VCAM-1 (vascular cell adhesion molecule-1) is an Ig-like cell surface adhesion molecule binding VLA-4 integrin. VCAM-1 is a potent T cell costimulatory molecule taking part in their positive selection and survival, as well as in adhesion, transendothelial migration and activation of peripheral T cells. VCAM-1 is also involved in endothelial cell-cell contacts. Whereas VCAM-1 normally mediates leukocyte extravasion to sites of tissue inflammation, tumour cells can use overexpressed VCAM-1 to escape T cell immunity. Soluble form of VCAM-1 (sVCAM-1) is an inflammatory marker and can be used also in prognosis of subsequent cariovascular events following acute coronary syndromes.
Function	Important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion. Interacts with integrin alpha-4/beta-1 (ITGA4/ITGB1) on leukocytes, and mediates both adhesion and signal transduction. The VCAM1/ITGA4/ITGB1 interaction may play a pathophysiologic role both in immune responses and in leukocyte emigration to sites of inflammation. [UniProt]
Highlight	Related products: CD106 antibodies; CD106 ELISA Kits; Anti-Mouse IgG secondary antibodies; Related news: CyTOF-candidate Antibodies
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Developmental Biology antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	81 kDa
PTM	Sialoglycoprotein.