ARG53757
anti-CD106 / VCAM1 antibody [STA] (PE)

Package: 100 tests
Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [STA] recognizes CD106 / VCAM1
Tested Reactivity	Hu
Tested Application	FACS
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	PE
Alternate Names	CD106; INCAM-100; Vascular cell adhesion protein 1; VCAM-1; CD antigen CD106; V-CAM 1

Application Instructions

Application table

Application	Dilution
FACS	20 µl / 10^6 cells

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

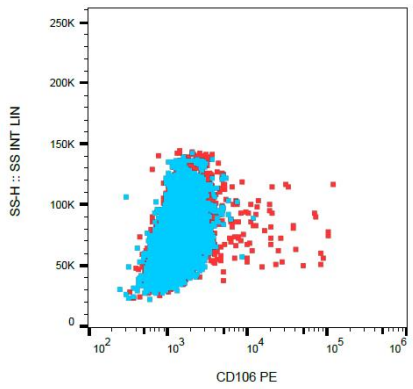
Form	Liquid
Purification Note	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. 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]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Developmental Biology antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	81 kDa
PTM	Sialoglycoprotein.

Images



ARG53757 anti-CD106 / VCAM1 antibody [STA] (PE) FACS image

Flow Cytometry: TNF alpha-stimulated HUVEC cells (red) and unstimulated HUVEC cells (blue) stained with ARG53757 anti-CD106 / VCAM1 antibody [STA] (PE).