

Datasheet for ABIN457435
anti-VCAM1 antibody



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Overview

Quantity:	100 µg
Target:	VCAM1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This VCAM1 antibody is un-conjugated
Application:	Flow Cytometry (FACS), ELISA, Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Anti-Hu CD106 Purified
Immunogen:	Human DS6 T cell line
Clone:	STA
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody STA recognizes an extracellular epitope of 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.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	VCAM1
Alternative Name:	CD106 (VCAM1 Products)
Background:	Vascular cell adhesion molecule 1,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.,VCAM-1, INCAM-100
Gene ID:	7412
UniProt:	P19320
Pathways:	Carbohydrate Homeostasis

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 4-6 µg/mL, positive control: TNF-alpha activated HUVEC cells. Immunohistochemistry (frozen sections): Acetone fixation. ELISA: Capture mAb for soluble CD106.
Restrictions:	For Research Use only

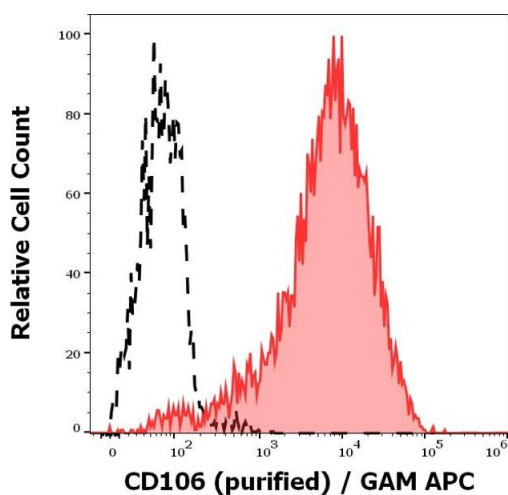
Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in: Yen, Liao, Hsiao, Kao, Chen, Wu-Hsieh: "Modeling the early events of severe acute respiratory syndrome coronavirus infection in vitro." in: **Journal of virology**, Vol. 80, Issue 6, pp. 2684-93, (2006) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Separation of HDLM-2 cells stained using anti-CD106 (STA) purified antibody (concentration in sample 1,7 µg/mL, GAM APC, red-filled) from HDLM-2 cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).