

1P-606-T025

Monoclonal Antibody to CD106 Phycoerythrin (PE) conjugated (25 tests)

Clone: STA

Isotype: Mouse IgG1

Specificity: The mouse monoclonal antibody 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

Regulatory Status: RUO

Immunogen: Human DS6 T cell line

Species Reactivity: Human

Preparation: 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.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution

containing 15mM sodium azide.

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not

use after expiration date stamped on vial label.

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using

20 µl reagent / 100 µl of whole blood or 10° cells in a suspension.

The content of a vial (0.5 ml) is sufficient for 25 tests.

Expiration: See vial label

Lot Number: See vial label

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.



PRODUCT DATA SHEET

References:

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*Paessens LC, Singh SK, Fernandes RJ, van Kooyk Y: Vascular cell adhesion molecule-1 (VCAM-1) and intercellular adhesion molecule-1 (ICAM-1) provide co-stimulation in positive selection along with survival of selected thymocytes. Mol Immunol. 2008 Jan;45(1):42-8.

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*Yen YT, Liao F, Hsiao CH, Kao CL, Chen YC, Wu-Hsieh BA: Modeling the early events of severe acute respiratory syndrome coronavirus infection in vitro. J Virol. 2006 Mar;80(6):2684-93.

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