Product datasheet

anti-CD106 mouse monoclonal, B-K9, purified

Short overview

Cat. No.	691613
Quantity	1 ml (100 µg/ml)
Concentration	100 µg/ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1 kappa
Clone	B-K9
Immunogen	Activated umbilical cord vein endothelial cells (HUVEC)
Formulation	PBS with 0.02% sodium azide
UniprotID	P19320 (Human)
Synomym	Vascular cell adhesion protein 1, V-CAM 1, VCAM-1, INCAM-100, CD antigen CD106, VCAM1
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage	2-8°C
Intended use	Research use only
Application	ELISA, FACS, ICC/IF, IHC
Reactivity	Human

Applications

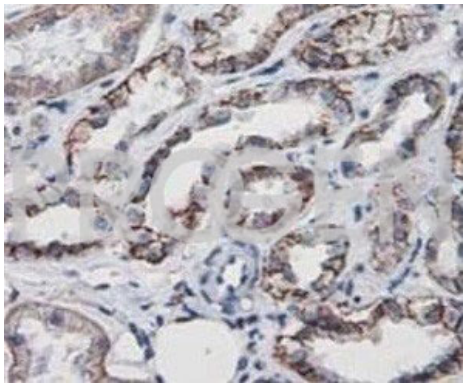
ELISA	Assay dependent
Flow Cytometry (FACS)	0.5-1.0 µg/million cells in 0.1 ml
Immunocytochemistry (ICC)	1:100-1:200 (0.5-1.0 µg/ml)
Immunohistochemistry (IHC) - frozen	1:50-1:100 (1-2 µg/ml)

Background

CD106 is a protein of 110 kDa, also known as vascular cell adhesion molecule-1 (VCAM-1) and INCAM-100. CD106 is a member of the Ig superfamily of adhesion molecules and is expressed at high levels on cytokine stimulated vascular endothelial cells, and at minimal levels on unstimulated endothelial cells. It is also present on follicular dendritic cells of lymph nodes, myoblasts, and some macrophages. In addition, epithelial cells and cancers cells can be positive, like in kidney and prostate cancer. CD106 serves as a ligand for leukocytes integrin (VLA-4 or CD49d/CD29) and mediates cell adhesion of leukocytes to activated endothelium. It plays a role in various immunological and inflammatory responses. B-K9 inhibits the binding of leukocytes to VCAM-1 on stimulated endothelial cells.

Positive control: human placenta or tonsil, kidney, some prostate cancers.

Product images



Kidney