Immunotag™ VCAM-1 Monoclonal Antibody

Antibody Specification

Catalog No.	ITM0644
Product Description	Immunotag™ VCAM-1 Monoclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	VCAM-1
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Mouse
Immunogen	Purified recombinant fragment of human VCAM-1 expressed in E. Coli.
Specificity	VCAM-1 Monoclonal Antibody detects endogenous levels of VCAM-1 protein.
Purification	Affinity purification
Form	Ascitic fluid containing 0.03% sodium azide.
Gene Name	VCAM1
Accession No.	P19320 P29533
Alternate Names	VCAM1; L1CAM; Vascular cell adhesion protein 1; V-CAM 1; VCAM-1; INCAM-100; CD antigen CD106

Antibody Specification

Description	vascular cell adhesion molecule 1(VCAM1) Homo sapiens This gene is a member of the Ig superfamily and encodes a cell surface sialoglycoprotein expressed by cytokine-activated endothelium. This type I membrane protein mediates leukocyte-endothelial cell adhesion and signal transduction, and may play a role in the development of artherosclerosis and rheumatoid arthritis. Three alternatively spliced transcripts encoding different isoforms have been described for this gene. [provided by RefSeq, Dec 2010],
Cell Pathway/ Category	Cell adhesion molecules (CAMs),Leukocyte transendothelial migration,
Protein Expression	Endothelial cell,Liver,Plasma,Retinal pigment epithelium,Synovial m
Subcellular Localization	podosome,extracellular space,early endosome,endoplasmic reticulum,Golgi apparatus,plasma membrane,microvillus,external side of plasma membrane,cell surface,membrane,integral component of membrane,filopodium,
Protein Function	Additional isoforms seem to exist,disease:May play an important role in the genesis of atherosclerosis and rheumatoid arthritis.,domain:Either the first or the fourth Ig-like C2-type domain is required for VLA4-dependent cell adhesion.,function:Important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion. Interacts with the beta-1 integrin VLA4 on leukocytes, and mediates both adhesion and signal transduction. The VCAM1/VLA4 interaction may play a pathophysiologic role both in immune responses and in leukocyte emigration to sites of inflammation.,induction:By cytokines (e.g. IL-1, TNF-alpha).,online information:VCAM-1,online information:VCAM1 entry,PTM:Sialoglycoprotein.,similarity:Contains 7 Ig-like C2-type (immunoglobulin-like) domains.,subunit:Binds to ECMV-D capsid proteins and acts as a receptor for this virus.,tissue specificity:Expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.