10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ICAM3 Rabbit mAb

Catalog # AP76543

Product Information

Application	WB, IHC-P
Primary Accession	P32942
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	59541

Additional Information

Gene ID	3385
Other Names	ICAM3
Dilution	WB~~1:1000 IHC-P~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	ICAM3 (HGNC:5346)
Function	Cell adhesion molecule that functions as a receptor ligand of the signaling receptor ITGAL:ITGB2/LFA-1 (lymphocyte-function associated (LFA) molecule 1) ensuring apoptotic neutrophil phagocytosis by macrophages (PubMed:1448173, PubMed:1448174, PubMed:23775590, PubMed:8325327, PubMed:8459213). Is also a ligand for integrin ITGAD/ITGB2 (PubMed:8777714). Ligand of CD209 on dendritic cells (DC) through an integrin-independent mechanism that requires Ca(2+) and that forms a first contact between DC and resting T cell, facilitating the downstream DC-T cell clustering process and DC-induced proliferation of resting T Cells (PubMed:10721994).
Cellular Location	Cell membrane; Single-pass type I membrane protein Note=Localization at uropodium is mediated through interaction with MSN.
Tissue Location	Constitutively expressed only on resting leukocytes (PubMed:8325327). No

expressed on resting or cytokine-activated endothelial cells (PubMed:1448174).

Background

The intercellular adhesion molecule (ICAM) family is a subfamily of immunoglobulin superfamily with five known ICAM family members (ICAM1 to ICAM5) which play a role in inflammation, immune responses, and intracellular signaling (PMID: 23287428; 29477378). ICAM3, also known as CD50, is a type I transmembrane glycoprotein that contains five C2-type immunoglobulin-like domains in its extracellular region, a single transmembrane segment, and a C-terminus cytoplasmic tail. ICAM3 is selectively expressed on leukocytes (PMID: 1730916; 8132828). It is the primary ligand for LFA-1 and is involved in various immune processes, including T-cell activation, and macrophage recognition of apoptotic cells (PMID: 11812993; 23775590).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.