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CD50 / ICAM-3 Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone 101-1D2]
Catalog # AH11489

Product Information

Application	IHC, IF, FC
Primary Accession	P32942
Other Accession	3385, 354563
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2a, kappa
Clone Names	101-1D2
Calculated MW	59541

Additional Information

Gene ID	3385
Other Names	Intercellular adhesion molecule 3, ICAM-3, CDw50, ICAM-R, CD50, ICAM3
Application Note	IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	CD50 / ICAM-3 Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

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

Recognizes an N-glycosylated glycoprotein of 120kDa with intra-chain disulfide bonds, identified as CD50 or ICAM-3 (WS: IV & V). Its epitope localizes in the D2 extracellular domain and is resistant to neuraminidase and proteases. CD50 is the major ligand for LFA-1 (CD11a/CD18) and may have signalling role to increase adhesion. It is expressed on thymocytes and T lymphocytes and is resistant to treatment with phosphatidylinositol (PI) phospholipase C. This MAb inhibits primary mixed lymphocyte culture (MLC) but not secondary MLC, cytotoxicity or proliferation induced by mitogens. It blocks binding of NK1-L16 stimulated T cells to L cells expressing CD50. This MAb is excellent for staining of formalin/paraffin tissues.

References

Vilella R, et. al. Tissue Antigens, 1990, 36(5):203-10. | Pino-Otin MR, et. al. Journal of Immunology, 1995, 154(6):3015-24. | Knapp, W. et. al. Leucocyte Typing IV, p541, 667-670, 1087, Oxford Univ. Press, 1989. | Schlossman SF, et. al. Leucocyte Typing V, p1542-1547, 2011, Oxford Univ. Press, 1993

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