

CD50 / ICAM-3 Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM505]
Catalog # AH10491

Product Information

Application	IF, FC, IHC-P
Primary Accession	P32942
Other Accession	3385 , 354563
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2b, kappa
Clone Names	SPM505
Calculated MW	59541

Additional Information

Gene ID	3385
Other Names	Intercellular adhesion molecule 3, ICAM-3, CDw50, ICAM-R, CD50, ICAM3
Application Note	IF~~1:50~200 FC~~1:10~50 IHC-P~~N/A
Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
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).

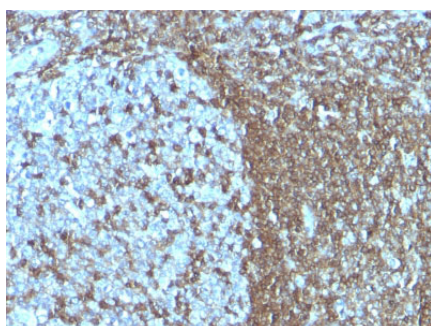
Background

Recognizes the D1 domain of an N-glycosylated glycoprotein of 120kDa with intra-chain disulfide bonds, identified as CD50 or ICAM-3. CD50 is the major ligand for LFA-1 (CD11a/CD18) and may have signaling role to increase adhesion. It is expressed on thymocytes and T lymphocytes and is resistant to treatment with phosphatidylinositol (PI) phospholipase C. This MAb is excellent for staining of formalin/paraffin tissues.

References

Leukocyte Typing V (S.F. Schlossman, et al, eds.) Oxford University Press, Oxford (1995)p. 1546-1547, 1578-1579. | C.L. Holness, et al, (1995) J Biol Chem 270: 877-884. | Y. van Kooyk, et al, (1996) J Exp Med 183:1247-1252. | Leukocyte Typing VI (T. Kishimoto, et al, eds.) Garland Publishing, Inc., New York (1997) p.403-409

Images



Formalin-fixed, paraffin-embedded human Tonsil stained with CD50 Monoclonal Antibody (SPM505)

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