

Mouse anti-Human CD50 Monoclonal Antibody | anti-ICAM3 antibody

Anti-CD50 Antibody, Mouse Monoclonal

CATALOG # AAA254831	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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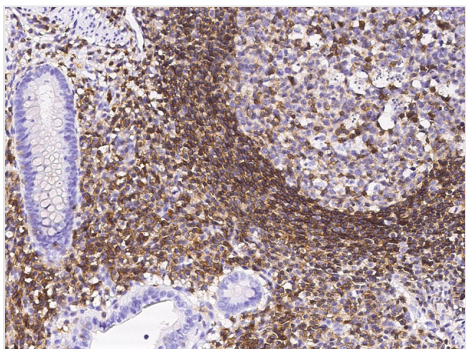
PRODUCT SYNONYMS

CD50; Monoclonal Antibody; Anti-CD50 Antibody; Mouse Monoclonal; CD50/ICAM-3 Antibody; Mouse MAb; intercellular adhesion molecule 3; Anti-CDW50 Antibody; Anti-ICAM-3 Antibody; Anti-ICAM-R Antibody; anti-ICAM3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	01
Specificity	Human CD50/ICAM-3. No cross-reactivity in ELISA with Human ICAM2, Human VCAM1, Mouse VCAM1
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-ICAM3 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant Human CD50/ICAM-3 protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CD50/ICAM-3 (rh CD50/ICAM-3). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

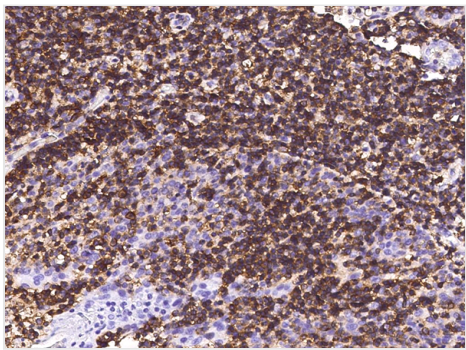
IMAGES



IHC (Immunohistochemistry)
Immunochemical staining of human ICAM3 in human appendix with mouse monoclonal antibody (1:100, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)
Immunochemical staining of human ICAM3 in human spleen with mouse monoclonal antibody (1:100, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)
Immunochemical staining of human ICAM3 in human tonsil with mouse monoclonal antibody (1:100, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-ICAM3 antibody	The protein ICAM-3, also known as CD50, is a member of the intercellular adhesion molecule (ICAM) family consisting of three members. It is a DC-SIGN ligand that is constitutively expressed on resting leukocytes and is thus an important molecule for the first immune response. ICAM-3 comprises five immunoglobulin-like domains and binds LFA-1 through its two N-terminal domains. It functions not only as an adhesion molecule but also as a potent signaling molecule. ICAM-3 binds to LFA-1 on antigen-presenting cells (APC) stabilizing the T cell-APC interaction, facilitating signaling through the CD3/TCR complex. However, recent evidence using cultured and transformed T cells suggests ICAM-3 may also function in signaling. It has been reported that the CD50 molecule can play a role in developing functionally mature T lymphocytes and its expression increases during the maturation process of T lymphocytes. Also, the interactions of ICAM-3 and LFA-1 facilitate HIV-1-induced virological synapse formation between T cells. ICAM-3 is associated with an increase in cellular radio-resistance and cancer cell proliferation. It could be considered as a candidate for anti-cancer drug development and as a cancer marker.
References	Berney SM, et al. (1999) ICAM-3 (CD50) cross-linking augments signaling in CD3-activated peripheral human T lymphocytes. J Leukoc Biol. 65(6): 867-74.van Buul JD, et al. (2004) ICAM-3 activation modulates cell-cell contacts of human bone marrow endothelial cells. J Vasc Res. 41(1): 28-37.Sugino H. (2005) ICAM-3, a ligand for DC-SIGN, was duplicated from ICAM-1 in mammalian evolution, but was lost in the rodent genome. FEBS Lett. 579(13): 2901-6.Park JK, et al. (2010) ICAM-3 enhances the migratory and invasive potential of human non-small cell lung cancer cells by inducing MMP-2 and MMP-9 via Akt and CREB. Int J Oncol. 36(1): 181-92.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167466207
NCBI GeneID	3385
NCBI Accession #	NP_002153.2
NCBI GenBank Nucleotide #	NM_002162.3

UniProt Accession #	P32942; Q6PD68
Molecular Weight	59,541 Da
NCBI Official Full Name	intercellular adhesion molecule 3
NCBI Official Synonym Full Names	intercellular adhesion molecule 3
NCBI Official Symbol	ICAM3
NCBI Official Synonym Symbols	CD50; CDW50; ICAM-R
NCBI Protein Information	intercellular adhesion molecule 3; ICAM-3; intercellular adhesion molecule-3
UniProt Protein Name	Intercellular adhesion molecule 3
UniProt Gene Name	ICAM3
UniProt Synonym Gene Names	ICAM-3
UniProt Entry Name	ICAM3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd50-antibody-clone-01-immunohistochemistry-elisa/254831>