Mouse anti-Human CD72 Monoclonal Antibody | anti-CD72 antibody

CD72 (B Cell Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215316	**Mouse**	**Human**	**Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA**

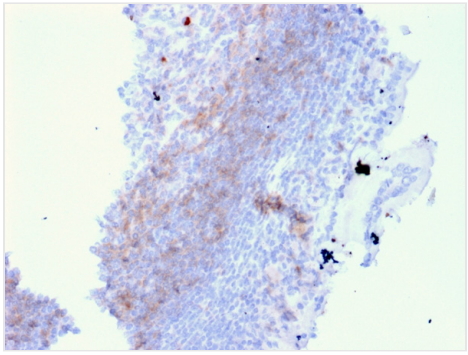
PRODUCT SYNONYMS

CD72; Monoclonal Antibody; CD72 (B Cell Marker); B cell differentiation antigen CD72; CD72b; CD72c; Ly-19; Ly-32; Ly-m19; LYB2; Lymphocyte antigen 32; anti-CD72 antibody

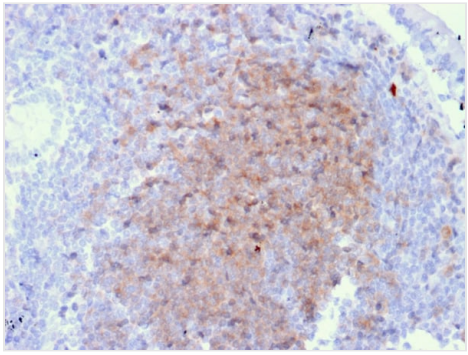
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	BU40
Specificity	CD5 has been identified as a transmembrane glycoprotein that is expressed on 70% of normal peripheral blood lymphocytes and on virtually all T lymphocytes in thymus and peripheral blood. Activation of T cells through the T cell receptor (TCR) results in tyrosine phosphorylation of CD5, and the absence of CD5 renders T cells hyper-responsive to TCR-mediated activation. CD5 associates with the TCR/CD3 chain, and with the Src family kinase, Lck p56. The C-type lectin superfamily member CD72 is a cell surface negative regulator of B cell activation from the pro-B through the mature B cell stage. CD72 serves as a receptor for CD5. The ability of lymphocytes to respond to antigenic or mitogenic stimulation utilizes both positive and negative regulatory proteins that influence the threshold for responsiveness. The human CD72 gene maps to chromosome 9p13.3 and encodes a transmembrane glycoprotein that contains an ITIM. Upon tyrosine phosphorylation, the CD72 ITIM recruits SH2-containing phosphatases such as SHP-1, resulting in downregulation of cell activation. CD72-/- mice contain hyperproliferative B cells.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/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.
Sequence Length	359
Applicable Applications for anti-CD72 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Positive Control	K562 cel lysate. Tonsil or Lymph Node.
Immunogen	HF B1 plasmacytoid cell line.
Cellular Localization	Membrane
Hu-chromosome Location	9p13.3
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemisry)
Formalin-fixed, paraffin-embedded human Lymph Node in Colon stained with CD72 Mouse Monoclonal Antibody (BU40).



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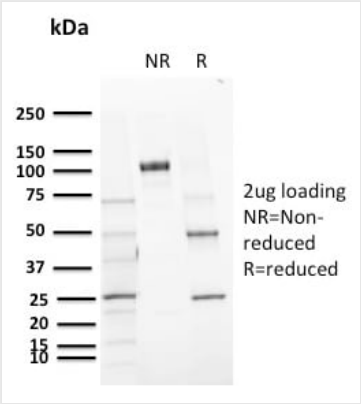

SDS-PAGE
SDS-PAGE Analysis Purified CD72 Mouse Monoclonal Antibody (BU40). Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

References	Yoshida, Y., et al. 2015. Arthritis Rheumatol. 67: 1481-1490.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502683
NCBI GeneID	971
NCBI Accession #	NP_001773.1
NCBI GenBank Nucleotide #	NP_001773.1
UniProt Accession #	P21854
Molecular Weight	45kDa
NCBI Official Full Name	B-cell differentiation antigen CD72
NCBI Official Synonym Full Names	CD72 molecule
NCBI Official Symbol	CD72
NCBI Official Synonym Symbols	LYB2; CD72b
NCBI Protein Information	B-cell differentiation antigen CD72
UniProt Protein Name	B-cell differentiation antigen CD72

UniProt Gene Name	**CD72**
UniProt Entry Name	CD72_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://www.aaabiotech.com/monoclonal/cd72-antibody-clone-bu40-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/215316