

CD72 (B Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone BU40]

Catalog No	Format	Size
971-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
971-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
971-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

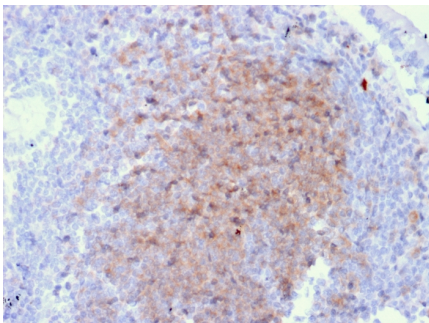
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

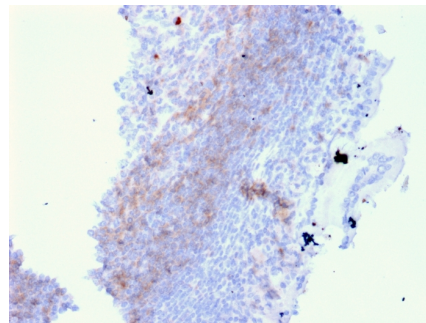
Clone	BU40
Gene Name	CD72
Immunogen	HF B1 plasmacytoid cell line.
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	45kDa
Cellular Localization	Membrane
Species Reactivity	Human
Positive Control	K562 cel lysate. Tonsil or Lymph Node.

*Optimal dilution for a specific application should be determined.

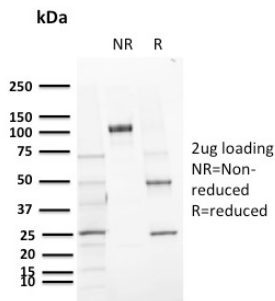
Product Images for CD72 (B Cell Marker) Antibody



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



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



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

Specificity & Comments

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.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

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 and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

B Cell Markers, Cardiovascular, Developmental Biology, Mitochondria Marker