Datasheet for ABIN6941252

anti-CD72 antibody

3 Images

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Overview

Quantity:	100 µg
Target:	CD72
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD72 antibody is un-conjugated
Application:	Flow Cytometry (FACS), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Coating (Coat), Staining Methods (StM)

Product Details

Immunogen:	HF B1 plasmacytoid cell line.
Clone:	BU40
Isotype:	IgG2a kappa
Purification:	Purified by Protein A/G

Target Details

Target:	CD72
Alternative Name:	CD72 (CD72 Products)
Background:	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

Target Details

	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.
Molecular Weight:	45kDa
Gene ID:	971
UniProt:	P21854
Pathways:	BCR Signaling

Application Details

Application Notes:	Positive Control: K562 cel lysate. Tonsil or Lymph Node. Known Application: ELISA (For coating, order without BSA), Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

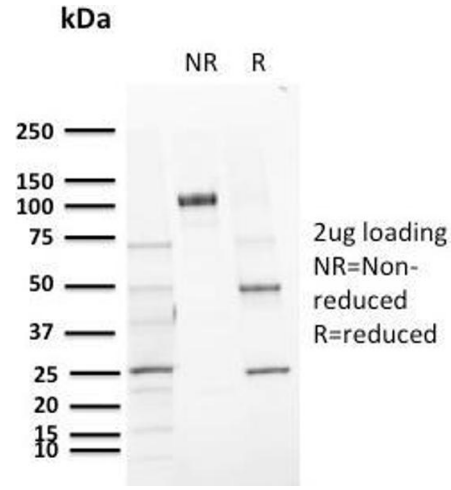
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

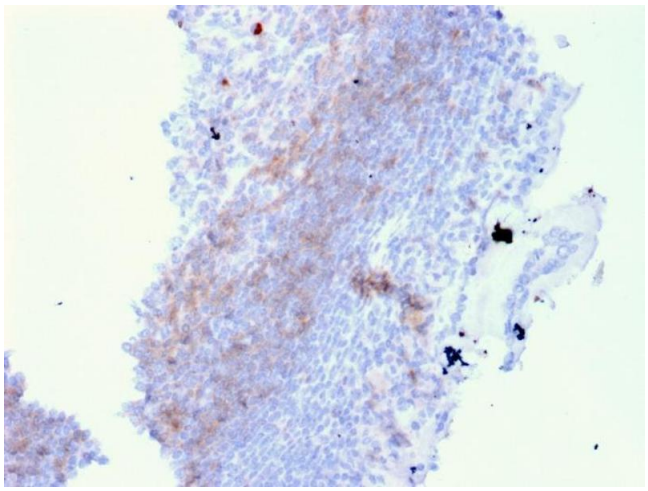
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



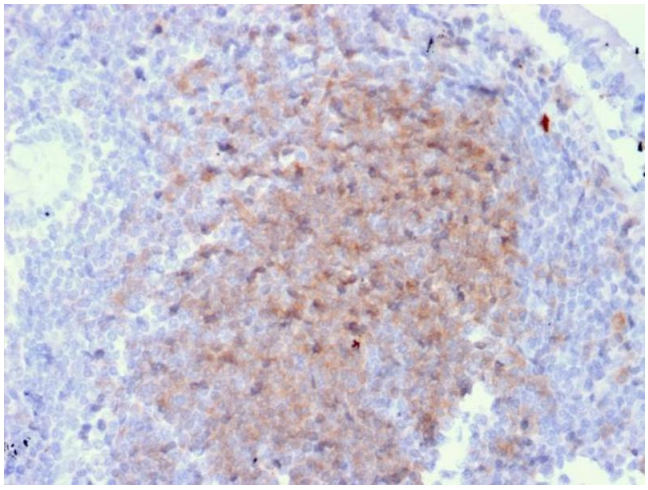
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified CD72 Mouse Monoclonal Antibody (BU40). Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Lymph Node in Colon stained with CD72 Mouse Monoclonal Antibody (BU40).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Lymph Node in Colon stained with CD72 Mouse Monoclonal Antibody (BU40).