

## 36-3651: Anti-CD72 (B Cell Marker) Monoclonal Antibody(Clone: BU40)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	BU40
<b>Application :</b>	ELISA,FACS,IF,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	CD72
<b>Gene ID :</b>	971
<b>Uniprot ID :</b>	P21854
<b>Alternative Name :</b>	B cell differentiation antigen CD72; CD72b; CD72c; Ly-19; Ly-32; Ly-m19; LYB2; Lymphocyte antigen 32
<b>Isotype :</b>	Mouse IgG2a, kappa
<b>Immunogen Information :</b>	HF B1 plasmacytoid cell line.

### Description

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<sup>-/-</sup> mice contain hyperproliferative B cells.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/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.
<b>Storage condition :</b>	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.

### Application Note

ELISA (For coating, order without BSA); Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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);

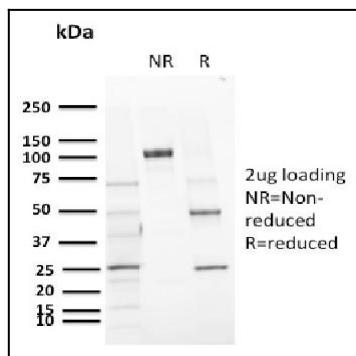


Fig. 1: SDS-PAGE Analysis Purified CD72 Mouse Monoclonal Antibody (BU40). Confirmation of Purity and Integrity of Antibody.

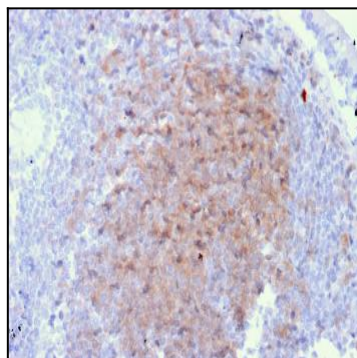


Fig. 2: Formalin-fixed, paraffin-embedded human Lymph Node in Colon stained with CD72 Mouse Monoclonal Antibody (BU40).

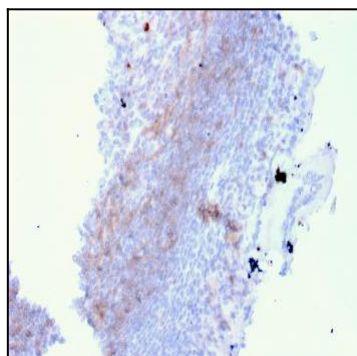


Fig. 3: Formalin-fixed, paraffin-embedded human Lymph Node in Colon stained with CD72 Mouse Monoclonal Antibody (BU40).