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36-3549: Anti-CD22 / BL-CAM (B-Cell Marker) Monoclonal Antibody(Clone: BLCAM/1795)

Clonality :	Monoclonal
Clone Name :	BLCAM/1795
Application :	ELISA,FACS,WB,IF,IHC
Reactivity :	Human
Gene :	CD22
Gene ID :	933
Uniprot ID :	P20273
Alternative Name :	B-lymphocyte cell adhesion molecule (BL-CAM); B-cell receptor CD22; CD22; Lectin 2; Lyb8; Sialic acid-binding Ig-like lectin 2 (Siglec-2); SIGLEC2; T-cell surface antigen Leu-14
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant fragment (around aa52-178) of human BL-CAM/CD22 protein (exact sequence is proprietary)

Description

Recognizes a protein of 130-140kDa, identified as CD22 (also known as BL-CAM). CD22 expression is restricted to normal and neoplastic B cells and is absent from other haemopoietic cell types. In B-cell ontogeny, CD22 is first expressed in the cytoplasm of pro-B and pre-B cells, and on the surface as B cells mature to become IgD+. It is not expressed by plasma cells, CD22 is found highly expressed in follicular mantle and marginal zone B-cells, and while germinal center B-cells are relatively weak. CD22 is a member of the immunoglobulin superfamily and serves as an adhesion receptor for sialic acid-bearing ligands expressed on erythrocytes and all leukocyte classes. It also associates with tyrosine kinases and play a role in signal transduction and B-cell activation.

Product Info

Amount :	20 µg / 100 µg
Content :	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.
Storage condition :	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 (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA);Flow Cytometry (1-2ug/million cells);Western Blot (1-2ug/ml);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 buffer with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)

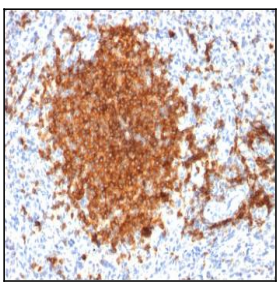

Fig. 1: Formalin-fixed, paraffin-embedded human Spleen stained with CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795).

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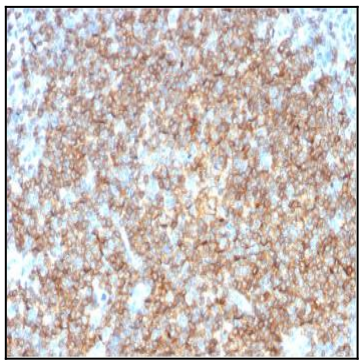

Fig. 2: Formalin-fixed, paraffin-embedded human Tonsil stained with CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795).

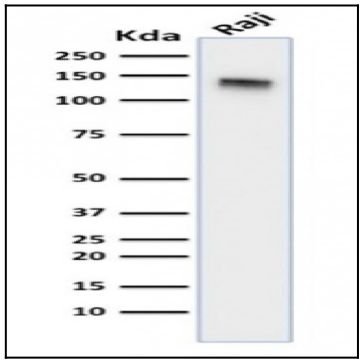

Fig. 3: Western Blot Analysis of Raji cell lysate using CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795).

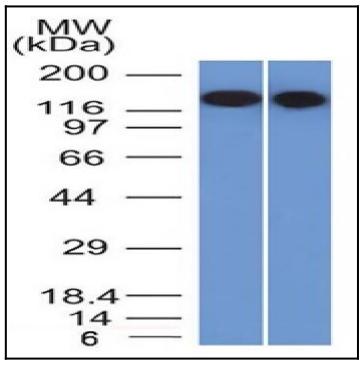

Fig. 4: Western Blot Analysis of Raji and Ramos cell lysates using CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795).

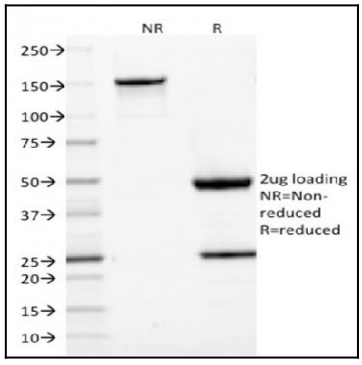

Fig. 5: SDS-PAGE Analysis Purified CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795). Confirmation of Purity and Integrity of Antibody.

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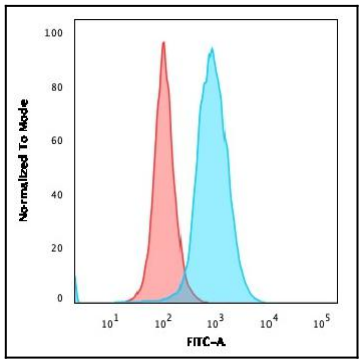

Fig. 6: Flow Cytometric Analysis of paraformaldehyde-fixed MOLT4 cells. CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

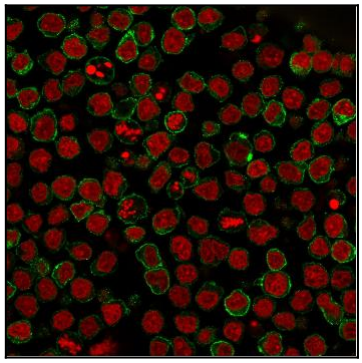

Fig. 7: Immunofluorescent staining of paraformaldehyde-fixed Ramos cells using CD22-Monospecific Mouse Monoclonal Antibody (BLCAM/1795) followed by goat anti-Mouse IgG conjµgated to CF488 (green). Nuclei are stained with Reddot.

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