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36-2973: Anti-BOB.1 (B-Cell Marker) Monoclonal Antibody(Clone: BOB1/2424)

Clonality :	Monoclonal
Clone Name :	BOB1/2424
Application :	FACS,IF,WB,IHC
Reactivity :	Human
Gene :	POU2AF1
Gene ID :	5450
Uniprot ID :	Q16633
Alternative Name :	B cell Oct binding protein 1; B-cell-specific coactivator OBF-1; BOB-1; OBF1; OCA-B; OCAB; OCT-binding factor 1; POU domain class 2-associating factor 1; POU2AF1
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant fragment (around aa 148-255) of human BOB1 (POU2AF1) protein (exact sequence is proprietary)

Description

BOB.1 expression in a variety of established B-cell lines, representing different stages of B-cell development, has sÂµggested a constitutive, B-cell-specific expression pattern. LP cells in nodular lymphocyte predominant Hodgkin lymphoma, because they are germinal center-derived, are consistently immuno-positive for BOB.1. Conversely, only some cases of classical Hodgkin lymphoma show BOB.1 immuno-reactivity within the Hodgkin and Reed-Sternberg cells.Expression of BOB.1 has been reported in follicular center cell lymphoma, diffuse large B-cell lymphoma and some cases of acute myeloid leukemia.B-CLL, marginal zone lymphoma, and mantle cell lymphoma may show weak to moderate immunoreactivity.

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

Flow Cytometry (1-2ug/ml); Immunofluorescence (1-2ug/ml);Western Blot (1-2ug/ml);Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 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&degC followed by cooling at RT for 20 minutes);

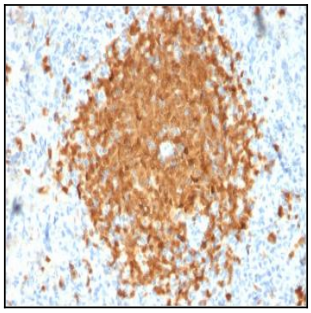


Fig. 1: Formalin-fixed, paraffin-embedded human Spleen stained with BOB1 Monospecific Mouse Monoclonal Antibody (BOB1/2424).

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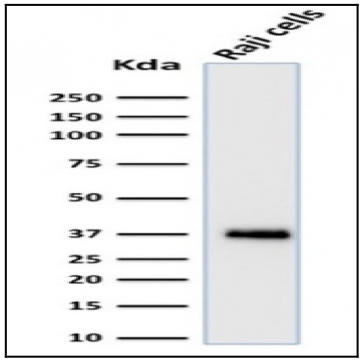


Fig. 2: Western Blot Analysis of Raji cell lysate using BOB1 Monospecific Mouse Monoclonal Antibody (BOB1/2424).

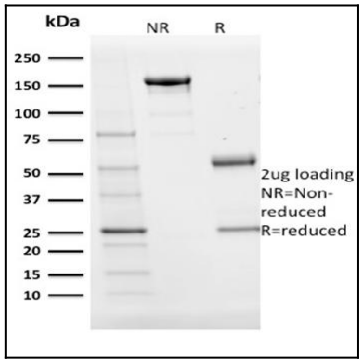


Fig. 3: SDS-PAGE Analysis Purified BOB1 Monospecific Mouse Monoclonal Antibody (BOB1/2424). Confirmation of Purity and Integrity of Antibody.

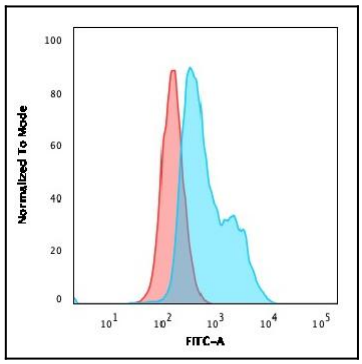


Fig. 4: Flow Cytometric Analysis of paraformaldehyde-fixed Raji cells. BOB1 Monospecific Mouse Monoclonal Antibody (BOB1/2424).; followed by goat anti-Mouse IgG-CF488 (blue) and Isotype Control (Red).

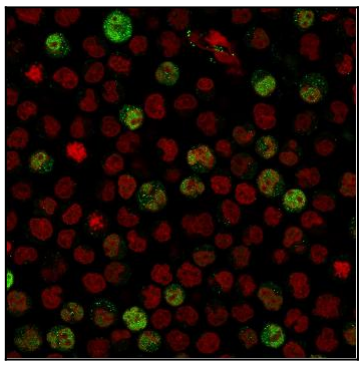


Fig. 5: Immunofluorescent staining of paraformaldehyde-fixed Raji cells using BOB1 Monospecific Mouse Monoclonal Antibody (BOB1/2424) followed by goat anti-Mouse IgG conjµgated to CF488 (green). Nuclei are labeled with RedDot (red).

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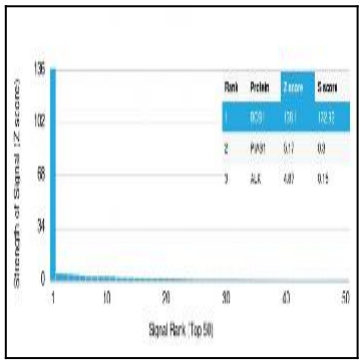


Fig. 6: Analysis of Protein Array containing >19,000 full-length human proteins using BOB1 Monospecific Mouse Monoclonal Antibody (BOB1/2424) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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