

## 36-2970: Anti-BOB.1 (B-Cell Marker) Monoclonal Antibody(Clone: BOB1/2421)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	BOB1/2421
<b>Application :</b>	FACS,WB,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	POU2AF1
<b>Gene ID :</b>	5450
<b>Uniprot ID :</b>	Q16633
<b>Alternative Name :</b>	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
<b>Isotype :</b>	Mouse IgG2b, kappa
<b>Immunogen Information :</b>	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 suggested 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

<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

Flow Cytometry (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°C followed by cooling at RT for 20 minutes);

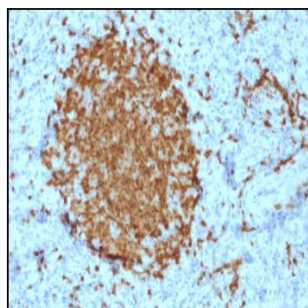


Fig. 1: Formalin-fixed, paraffin-embedded human Spleen stained with BOB1 Mouse Monoclonal Antibody (BOB1/2421).

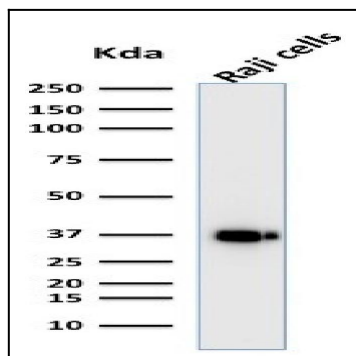


Fig. 2: Western Blot Analysis of Raji cell lysate using BOB1 Mouse Monoclonal Antibody (BOB1/2421).

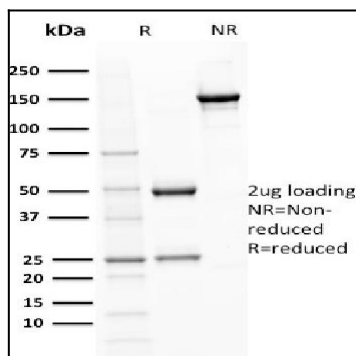


Fig. 3: SDS-PAGE Analysis Purified BOB1 Mouse Monoclonal Antibody (BOB1/2421). Confirmation of Integrity and Purity of Antibody.

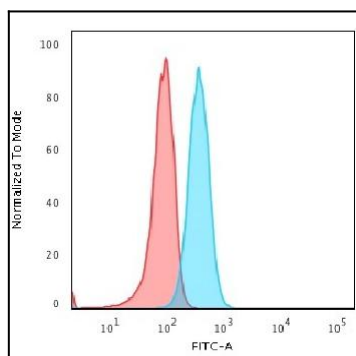


Fig. 4: Flow Cytometric Analysis of Human Raji cells using BOB1 Mouse Monoclonal Antibody (BOB1/2421) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

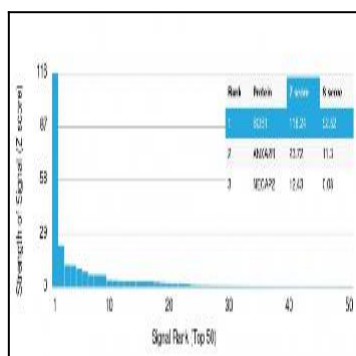


Fig. 5: Analysis of Protein Array containing more than 19,000 full-length human proteins using BOB1 Mouse Monoclonal Antibody (BOB1/2421). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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 HuProt™ 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 be 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.