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36-3382: Anti-ZAP70 (Chronic Lymphocytic Leukemia Marker) Monoclonal Antibody(Clone: ZAP70/2046)

Clonality :	Monoclonal	
Clone Name :	ZAP70/2046	
Application :	ELISA,IHC	
Reactivity :	Human	
Gene :	ZAP70	
Gene ID :	7535	
Uniprot ID :	P43403	
Alternative Name :	Selective T cell defect; SRK; STD; Syk-related tyrosine kinase; Tyrosine-protein kinase ZAP-70;TZK; Zeta chain associated protein kinase 70kDa	
Isotype :	Mouse IgG2a, kappa	
Immunogen Information :	Recombinant fragment (around aa 247-382) of human ZAP70 protein (exact sequence is proprietary)	

Description

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ZAP70 is a 70kDa protein tyrosine kinase found in T-cells and natural killer cells.Control of this protein translation is via the IgVH gene. ZAP70 protein is expressed in leukemic cells of approximately 25% of chronic lymphocytic leukemia (CLL) cases as well.Anti-ZAP70 expression is an excellent surrogate marker for the distinction between the Ig-mutated (anti-ZAP70 negative) and Ig-unmutated (anti-ZAP70 positive) CLL subtypes and can identify patient groups with divergent clinical courses. The anti-ZAP70 positive Ig-unmutated CLL cases have been shown to have a poorer prognosis.

Product Into	
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); 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: Formalin-fixed, paraffin-embedded human Lymph Node stained with ZAP70 Mouse Monoclonal Antibody (ZAP70/2046).

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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	NR	R	
250→			
150→	-		
100→			
75→			
50→			2ug loading NR=Non-
37→			reduced R=reduced
25→ 20→			
15→			
10->			

Fig. 2: SDS-PAGE Analysis Purified ZAP70 Mouse Monoclonal Antibody (ZAP70/2046). Confirmation of Integrity and Purity of Antibody.



Fig. 3: Analysis of Protein Array containing more than 19,000 full-length human proteins using ZAP70 Mouse Monoclonal Antibody (ZAP70/2046). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-lgG 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 Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody 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 Monoclonal Antibody to protein X is equal to 29.