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Bhubaneswar, Odisha - 751024, INDIA

36-1812: Monoclonal Antibody to ZAP70 (Chronic Lymphocytic Leukemia Marker)(Clone : 2F3.2)

Clonality :	Monoclonal
Clone Name :	2F3.2
Application :	FACS,IF,IHC
Reactivity :	Human
Gene :	ZAP70
Gene ID :	7535
Uniprot ID :	P43403
Format :	Purified
Alternative Name :	ZAP70,SRK
Isotype :	Mouse IgG2a, kappa
Immunogen Information :	Recombinant ZAP-70 protein including residues 1-254 and encompassing SH2 domains of human ZAP70

Description

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.?In Western blotting of whole cell lysates of normal peripheral blood mononuclear cells, the antibody labels a band corresponding to ZAP70. In Western blotting of whole cell lysates of CD19-positive purified leukemia cells from patients with Ig-unmutated and Ig-mutated CLL, the antibody labels a band corresponding to ZAP70 in the Ig-unmutated CLL samples, whereas no band is observed in the Ig-mutated CLL samples. In Western blotting of cell lysates of Jurkat cells (T-lymphoblastic cell line), the antibody labels a band of 70kDa protein. In Western blotting of cell lysates of A431 cells (carcinoma cell line), no band is observed. 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 Info

Amount :	100 µg
Purification :	Affinity Chromatography
Content :	100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

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&degC followed by cooling at RT for 20 minutes);

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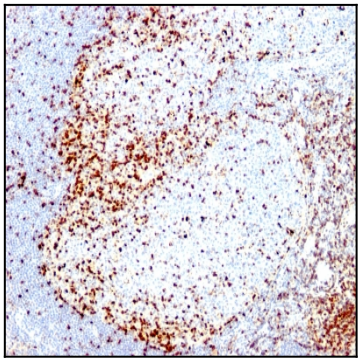

Formalin-fixed, paraffin-embedded human Tonsil stained with ZAP70 Monoclonal Antibody (2F3.2).