

ZAP70 (Chronic Lymphocytic Leukemia Marker) Antibody

Mouse Monoclonal Antibody [Clone 2F3.2]

Catalog No	Format	Size
7535-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7535-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7535-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

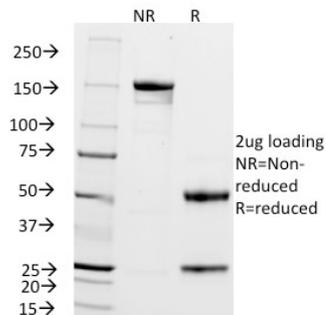
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

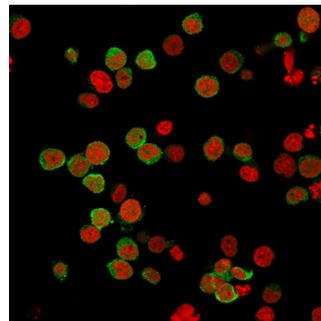
Clone	2F3.2
Gene Name	ZAP70
Immunogen	Recombinant ZAP-70 protein including residues 1-254 and encompassing SH2 domains of human ZAP70
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	70kDa
Cellular Localization	Cell membrane, Cytoplasm
Species Reactivity	Human
Positive Control	Jurkat cells. Tonsil or lymph node.

*Optimal dilution for a specific application should be determined.

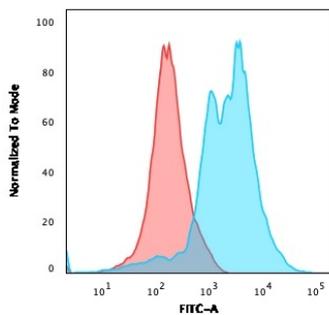
Product Images for ZAP70 (Chronic Lymphocytic Leukemia Marker) Antibody



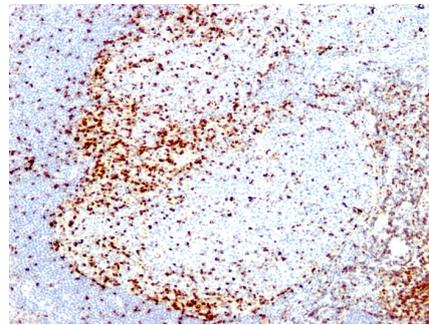
SDS-PAGE Analysis of Purified ZAP70 Mouse Monoclonal Antibody (2F3.2). Confirmation of Purity and Integrity of Antibody.



Immunofluorescence Analysis of PFA-fixed Jurkat cells labeled with ZAP70 Mouse Monoclonal Antibody (2F3.2) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Nucspot (Red).



Flow Cytometric Analysis of PFA-fixed Jurkat cells. ZAP70 Mouse Monoclonal Antibody (2F3.2) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



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

Specificity & Comments

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.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/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 and Stability

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. No MSDS required.

Research Areas

Cardiovascular, Immunology, PD-1 blockade immunotherapy, Signal Transduction