

ZAP70 (Chronic Lymphocytic Leukemia Marker) Antibody

Mouse Monoclonal Antibody [Clone ZAP70/2047]

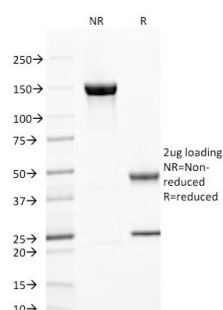
Catalog No	Format	Size
7535-MSM7-P0	Purified Ab with BSA and Azide	200ug/ml
7535-MSM7-P1	Purified Ab with BSA and Azide	200ug/ml
7535-MSM7-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

Applications	Tested Dillution
Flow Cytometry (Flow)	1-2ug/million cells
Immunofluorescence (IF)	1-3ug/ml
Immunohistochemistry (IHC)	1-2ug/ml

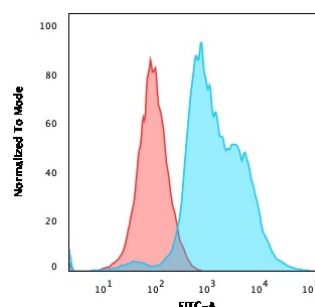
Product Details	
Clone	ZAP70/2047
Gene Name	ZAP70
Immunogen	Recombinant fragment (around aa 247-382) of human ZAP70 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	70kDa
Cellular Localization	Cell membrane, Cytoplasm
Species Reactivity	Human
Positive Control	Jurkat cells. Tonsil or lymph node.

**Optimal dilution for a specific application should be determined.*

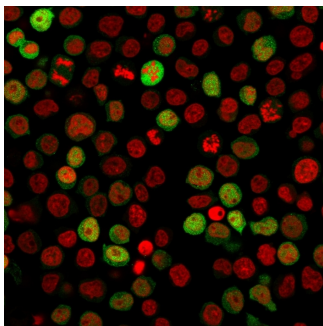
Product Images for ZAP70 (Chronic Lymphocytic Leukemia Marker) Antibody



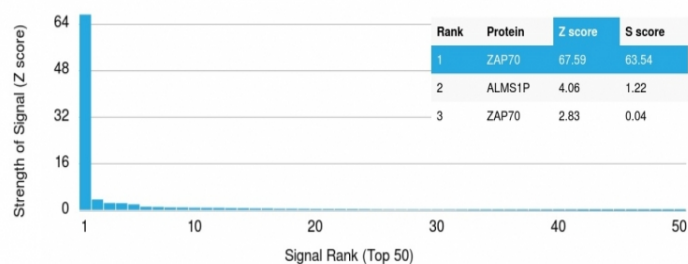
SDS-PAGE Analysis Purified ZAP70 Mouse Monoclonal Antibody (ZAP70/2047). Confirmation of Integrity and Purity of Antibody.



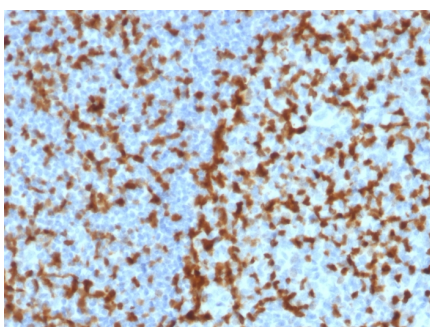
Flow Cytometric Analysis of PFA-fixed Jurkat cells. ZAP70 Mouse Monoclonal Antibody (ZAP70/2047) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Immunofluorescence staining of paraformaldehyde-fixed Jurkat cells with ZAP70 Mouse Monoclonal Antibody (ZAP70/2047) followed by goat anti-Mouse IgG-CF488 (Green). Nuclei are labeled with Reddot (Red).



Analysis of Protein Array containing more than 19,000 full-length human proteins using ZAP70 Mouse Monoclonal Antibody (ZAP70/2047). 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 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.



Formalin-fixed, paraffin-embedded human Tonsil stained with ZAP70 Mouse Monoclonal Antibody (ZAP70/2047).

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. 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.

Research Areas

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

Known Applications & Suggested Dilutions

ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA) | 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°C followed by cooling at RT for 20 minutes) | Optimal dilution for a specific application should be determined.

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.