

## Product Datasheet

### ZAP-70 Antibody (orb749850)

<b>Catalog Number</b>	orb749850
<b>Category</b>	Antibodies
<b>Description</b>	<p>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.</p>
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG2a, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human
<b>Buffer/Preservatives</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
<b>Purification</b>	Protein G affinity chromatography
<b>Immunogen</b>	Recombinant human protein (including amino acids 1-254 and the SH2 domains) was used as the immunogen for the ZAP-70 antibody.
<b>UniProt ID</b>	<b>P43403</b>
<b>Tested applications</b>	FACS, IF, IHC-P, WB

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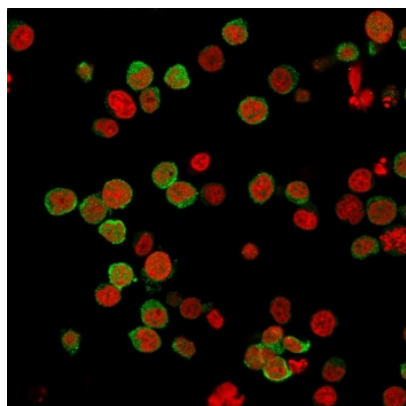
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<b>Dilution range</b>	Western blot: 1-2ug/ml,Flow cytometry: 1-2ug/10 <sup>6</sup> cells,Immunofluorescence: 1-2ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
<b>Application notes</b>	Optimal dilution of the ZAP-70 antibody should be determined by the researcher.1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	2F3.2
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



Immunofluorescent staining of PFA-fixed human Jurkat cells with ZAP-70 antibody (green, clone 2F3.2) and Reddot nuclear stain (red).

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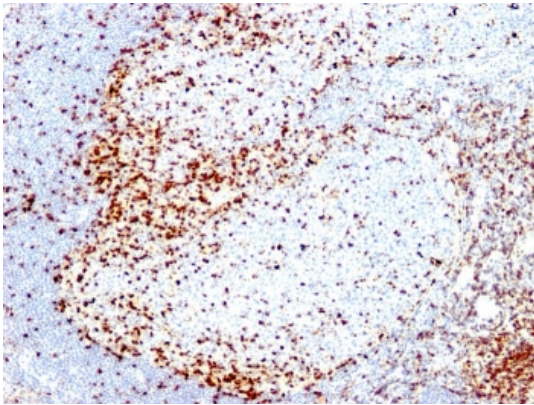
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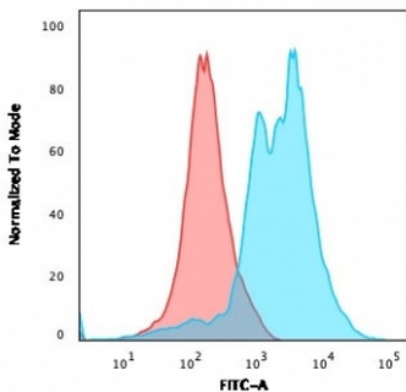
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IHC analysis of formalin-fixed, paraffin-embedded human tonsil stained with ZAP-70 antibody (clone 2F3.2).



Western blot testing of human Jurkat cell lysate with ZAP-70 antibody (clone 2F3.2).



Flow testing of PFA-fixed Jurkat cells with ZAP-70 antibody (clone 2F3.2); Red = isotype control, Blue = ZAP70 antibody.

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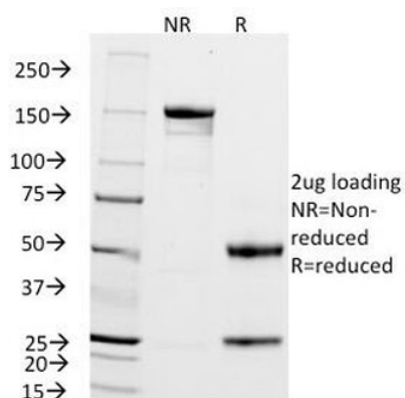
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SDS-PAGE analysis of purified, BSA-free ZAP-70 antibody (clone 2F3.2) as confirmation of integrity and purity.

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