

Product Datasheet

ZAP70 Antibody (2F3.2) - Azide and BSA Free NBP2-47774-0.1mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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Updated 4/13/2025 v.20.1

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NBP2-47774-0.1mg

ZAP70 Antibody (2F3.2) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2F3.2
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	70 kDa

Product Description	
Description	<p>1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-44502).</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.</p>
Host	Mouse
Gene ID	7535
Gene Symbol	ZAP70
Species	Human
Marker	Chronic Lymphocytic Leukemia Marker
Specificity/Sensitivity	<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. 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.</p>
Immunogen	Recombinant ZAP-70 protein including residues 1-254 and encompassing SH2 domains of human ZAP70 (Uniprot: P43403)

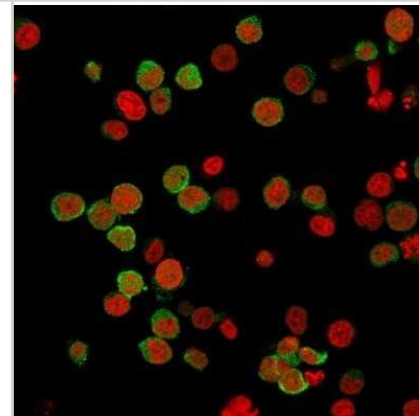
Product Application Details	
Applications	Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence



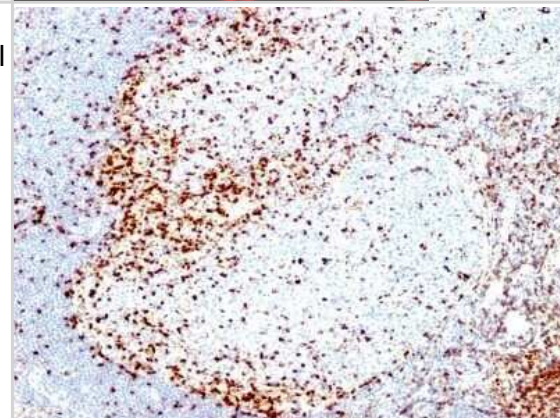
Recommended Dilutions	Simple Western 10 ug/ml, Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 0.5 - 1.0 ug/ml, Immunofluorescence 0.5 - 1.0 ug/ml, CyTOF-ready
Application Notes	Immunohistochemistry (Formalin-fixed): 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 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: antibody dilution of 10 ug/mL.

Images

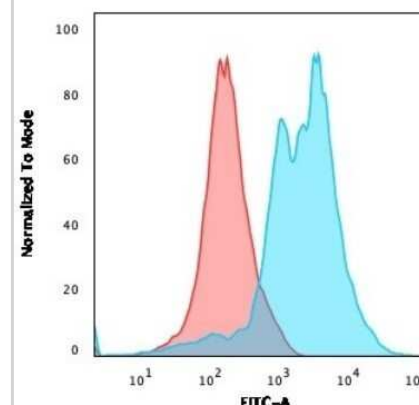
Immunocytochemistry/Immunofluorescence: ZAP70 Antibody (2F3.2) - Azide and BSA Free [NBP2-47774] - Immunofluorescence Analysis of PFA-fixed Jurkat cells labeled with ZAP70 Antibody (2F3.2) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Nucspot (Red).



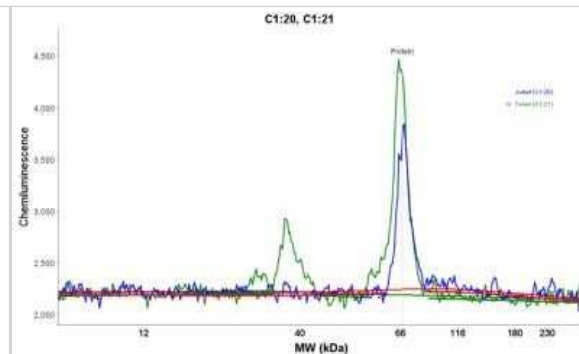
Immunohistochemistry-Paraffin: ZAP70 Antibody (2F3.2) - Azide and BSA Free [NBP2-47774] - Human Tonsil stained with ZAP70 Monoclonal Antibody (2F3.2).



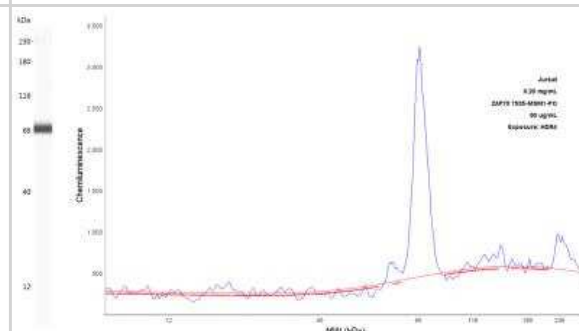
Flow Cytometry: ZAP70 Antibody (2F3.2) - Azide and BSA Free [NBP2-47774] - Flow Cytometric Analysis of PFA-fixed Jurkat cells. ZAP70 Antibody (2F3.2) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Simple Western: ZAP70 Antibody (2F3.2) - Azide and BSA Free [NBP2-47774] - Electropherogram image of the corresponding Simple Western lane. ZAP70 antibody was used at 10 ug/ml dilution of Jurkat and H. Tonsil lysates(s) respectively.



Simple Western: ZAP70 Antibody (2F3.2) - Azide and BSA Free [NBP2-47774] - Lane view shows a specific band for ZAP70 in Jurkat cell lysate using 50 ug/mL antibody dilution. Electropherogram image of corresponding Simple Western lane view at WES molecular weight of 70 kDa. Image from an internal validation.



Simple Western: ZAP70 Antibody (2F3.2) - Azide and BSA Free [NBP2-47774] - Simple Western lane view shows a specific band for ZAP70 in 0.2 mg/ml of Jurkat (left) and H. Tonsil (right) lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.





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Products Related to NBP2-47774-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP1-87000PEP	ZAP70 Recombinant Protein Antigen

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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