Datasheet for ABIN6940909

anti-ZAP70 antibody (AA 1-254)

4 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	ZAP70
Binding Specificity:	AA 1-254
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF), Staining Methods (StM)

Product Details

Immunogen:	Recombinant ZAP-70 protein including residues 1-254 and encompassing SH2 domains of human ZAP70
Clone:	2F3-2
Isotype:	IgG2a kappa
Purification:	Purified by Protein A/G

Target Details

Target:	ZAP70
Alternative Name:	ZAP70 (ZAP70 Products)
Background:	ZAP70 is a 70 kDa 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

Target Details

	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 70 kDa 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.
Molecular Weight:	70kDa
Gene ID:	7535
UniProt:	P43403
Pathways:	TCR Signaling, Ubiquitin Proteasome Pathway

Application Details

Application Notes:	Positive Control: Jurkat cells. Tonsil or lymph node. Known Application: Flow Cytometry (1-2 µg/million cells),Immunofluorescence (1-2 µg/mL),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

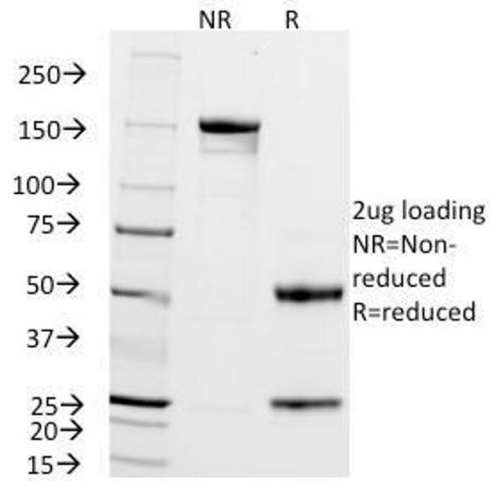
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

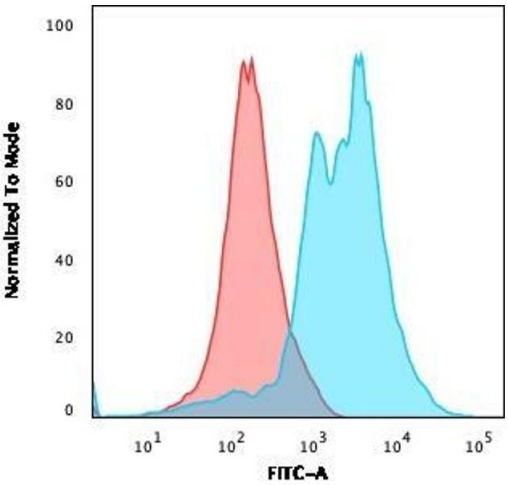
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



SDS-PAGE

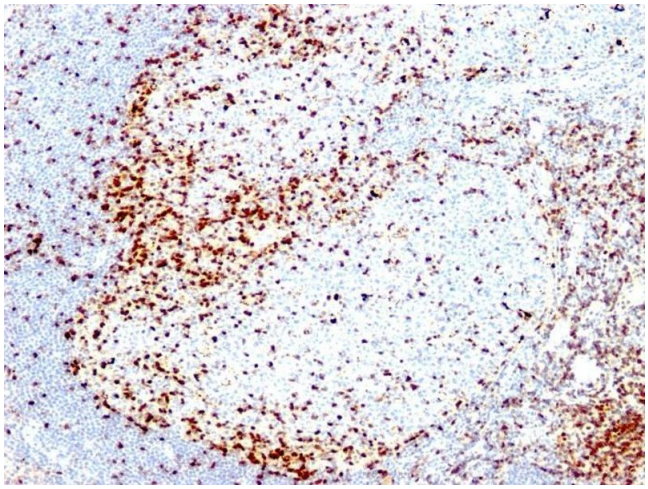
Image 1. SDS-PAGE Analysis Purified ZAP70 Mouse Monoclonal Antibody (2F3.2). Confirmation of Purity and Integrity of Antibody



Flow Cytometry

Image 2. 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).

Images



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Tonsil stained with ZAP70 Mouse Monoclonal Antibody (2F3.2)

Please check the product details page for more images. Overall 4 images are available for ABIN6940909.