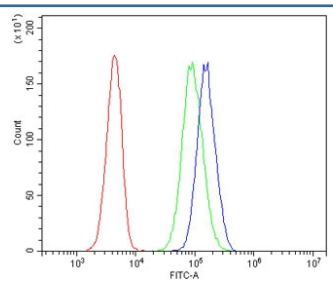
ZAP70 Antibody [clone 6F12] (RQ6080)

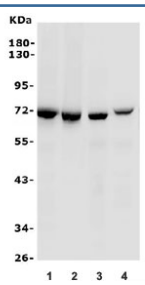
Catalog No.	Formulation	Size
RQ6080	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	6F12
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P43403
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This ZAP70 antibody is available for research use only.



Flow cytometry testing of human 293T cells with ZAP70 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ZAP70 antibody.



Western blot testing of 1) human Jurkat, 2) human CCR-CEM, 3) mouse spleen and 4) mouse thymus lysate with ZAP70 antibody. Expected molecular weight ~70 kDa.

Description

ZAP-70 (Zeta-chain-associated protein kinase 70) encodes an enzyme belonging to the protein tyrosine kinase family, and it plays a role in T-cell development and lymphocyte activation. This enzyme, which is phosphorylated on tyrosine residues upon T-cell antigen receptor (TCR) stimulation, functions in the initial step of TCR-mediated signal transduction in combination with the Src family kinases, Lck and Fyn. This enzyme is also essential for thymocyte development. Mutations in this gene cause selective T-cell defect, a severe combined immunodeficiency disease characterized by a selective absence of CD8-positive T-cells. Two transcript variants that encode different isoforms have been found for this gene.

Application Notes

Optimal dilution of the ZAP70 antibody should be determined by the researcher.

Immunogen

Amino acids MRKKQIDVAIKVLKQGTEKADTEEMMREAQIMHQL from the human protein were used as the immunogen for the ZAP70 antibody.

Storage

After reconstitution, the ZAP70 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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