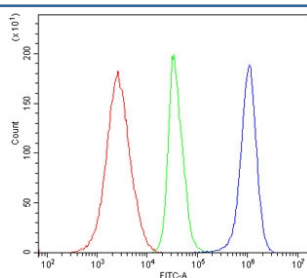


## ZAP70 Antibody [clone 9D5] (RQ5941)

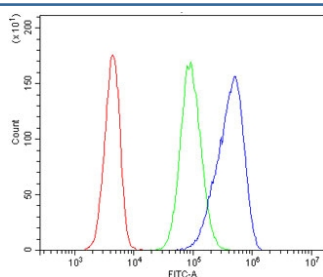
| Catalog No. | Formulation                                           | Size   |
|-------------|-------------------------------------------------------|--------|
| RQ5941      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

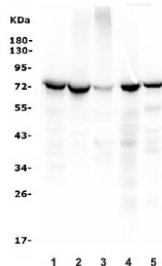
|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                                 |
| <b>Species Reactivity</b> | Human, Mouse, Rat                                                 |
| <b>Format</b>             | Antigen affinity purified                                         |
| <b>Clonality</b>          | Monoclonal (mouse origin)                                         |
| <b>Isotype</b>            | Mouse IgG2b                                                       |
| <b>Clone Name</b>         | 9D5                                                               |
| <b>Purity</b>             | Affinity purified                                                 |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide |
| <b>UniProt</b>            | P43403                                                            |
| <b>Applications</b>       | Western Blot : 0.5-1ug/ml<br>Flow Cytometry : 1-3ug/million cells |
| <b>Limitations</b>        | This ZAP70 antibody is available for research use only.           |



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



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 CCRF-CEM, 3) rat thymus, 4) mouse spleen and 5) 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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.