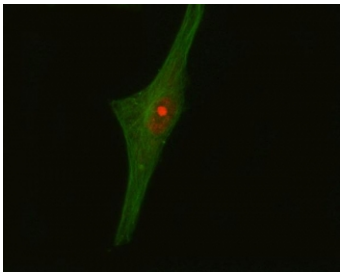
Crk-like protein Antibody / CrkL (RQ7731)

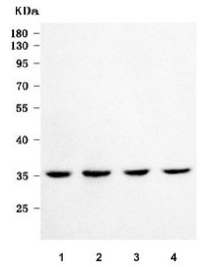
Catalog No.	Formulation	Size
RQ7731	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

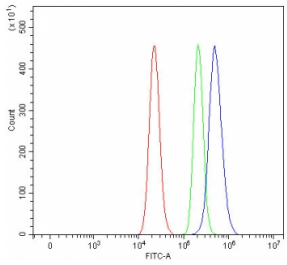
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P46109
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml Immunoprecipitation : 2ug per 500ug of lysate
Limitations	This Crk-like protein antibody is available for research use only.



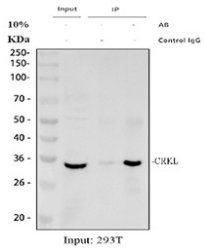
Immunofluorescent staining of FFPE human U-87 MG cells with Crk-like protein antibody (red) and Alpha Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) K562, 2) 293T, 3) U-2 OS and 4) HeLa cell lysate with Crk-like protein antibody. Expected molecular weight: 34~39 kDa.



Flow cytometry testing of fixed and permeabilized human RT4 cells with Crk-like protein antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Crk-like protein antibody.



Immunoprecipitation of Crk-like protein protein from 500ug of human 293T whole cell lysate with 2ug of Crk-like protein antibody.

Description

Crk-like protein (CrkL) is an adaptor protein belonging to the Crk family of signaling molecules. It contains one SH2 domain and two SH3 domains, allowing it to interact with a wide range of tyrosine-phosphorylated proteins and downstream effectors. Through these interactions, CrkL regulates pathways involved in cytoskeletal organization, cell migration, adhesion, proliferation, and survival. CrkL is expressed in many tissues but is particularly important in hematopoietic and immune cell signaling.

Aberrant regulation of CrkL has been linked to various human diseases, most notably chronic myeloid leukemia (CML), where it serves as a major substrate of the BCR-ABL fusion protein. Elevated phosphorylation and altered signaling through CrkL contribute to leukemogenesis and resistance to therapy. CrkL has also been implicated in solid tumors, immune regulation, and developmental processes, highlighting its role as a central node in intracellular signaling networks.

The **Crk-like protein antibody** is a powerful tool for investigating signaling pathways associated with cell migration, oncogenesis, and immune regulation. Researchers use the Crk-like protein antibody in western blotting, immunoprecipitation, and immunofluorescence to detect expression and phosphorylation states of CrkL. With proven sensitivity and specificity, the Crk-like protein antibody enables accurate analysis of intracellular signaling dynamics in both normal physiology and disease models.

Application Notes

Optimal dilution of the Crk-like protein antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids M1-H290) was used as the immunogen for the Crk-like protein antibody.

Storage

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