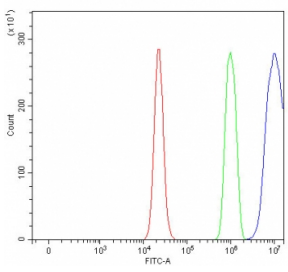
# PTPN13 Antibody / FAP-1 (RQ8293)

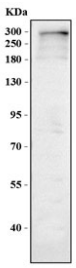
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ8293 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**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** | Q12923 |
| **Applications** | Western Blot : 0.5-1ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>Direct ELISA : 0.1-0.5ug/ml |
| **Limitations** | This PTPN13 antibody is available for research use only. |




Flow cytometry testing of fixed and permeabilized human RT4 cells with PTPN13 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PTPN13 antibody.




Western blot testing of human RT4 cell lysate with PTPN13 antibody. Predicted molecular weight: 256-277 kDa (multiple isoforms).

## Description

Tyrosine-protein phosphatase non-receptor type 13, also called Fas-associated protein-tyrosine phosphatase 1 (FAP-1), is an enzyme that in humans is encoded by the PTPN13 gene. The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP is a large intracellular protein. It has a catalytic PTP domain at its C-terminus and two major structural domains: a region with five PDZ domains and a FERM domain that binds to plasma membrane and cytoskeletal elements. This PTP was found to interact with, and dephosphorylate, Fas receptor and IkappaBalpha through the PDZ domains. This suggests it has a role in Fas mediated programmed cell death. This PTP was also shown to interact with GTPase-activating protein, and thus may function as a regulator of Rho signaling pathways. Four alternatively spliced transcript variants, which encode distinct proteins, have been reported.

## Application Notes

Optimal dilution of the PTPN13 antibody should be determined by the researcher.

## Immunogen

An E.coli-derived human recombinant protein (E1795-D2046) was used as the immunogen for the PTPN13 antibody.

## Storage

After reconstitution, the PTPN13 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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