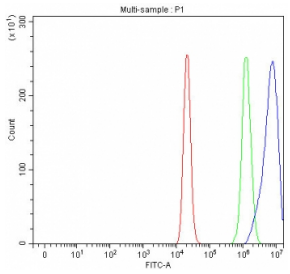
INPP5D Antibody / Inositol polyphosphate-5-phosphatase D / SHIP1 (RQ8586)

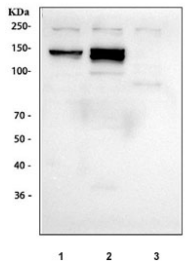
Catalog No.	Formulation	Size
RQ8586	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q92835
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This INPP5D antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human ThP-1 cells with INPP5D antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= INPP5D antibody.



Western blot testing of human 1) Raji, 2) ThP-1 and 3) K562 cell lysate with INPP5D antibody. Predicted molecular weight ~133 kDa, commonly observed at ~145 kDa.

Description

Phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase 1 is an enzyme that in humans is encoded by the INPP5D gene. This gene is a member of the inositol polyphosphate-5-phosphatase (INPP5) family and encodes a protein with an N-terminal SH2 domain, an inositol phosphatase domain, and two C-terminal protein interaction domains. Expression of this protein is restricted to hematopoietic cells where its movement from the cytosol to the plasma membrane is mediated by tyrosine phosphorylation. At the plasma membrane, the protein hydrolyzes the 5' phosphate from phosphatidylinositol (3,4,5)-trisphosphate and inositol-1,3,4,5-tetrakisphosphate, thereby affecting multiple signaling pathways. The protein is also partly localized to the nucleus, where it may be involved in nuclear inositol phosphate signaling processes. Overall, the protein functions as a negative regulator of myeloid cell proliferation and survival. Mutations in this gene are associated with defects and cancers of the immune system.

Application Notes

Optimal dilution of the INPP5D antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids Q81-E1093) was used as the immunogen for the INPP5D antibody.

Storage

After reconstitution, the INPP5D 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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