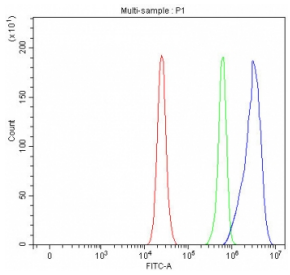
MPPE1 Antibody / Metallophosphoesterase 1 (RQ8554)

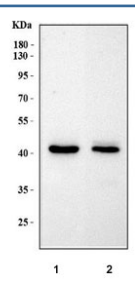
Catalog No.	Formulation	Size
RQ8554	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q53F39
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This MPPE1 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human RT4 cells with MPPE1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MPPE1 antibody.



Western blot testing of 1) rat brain and 2) mouse brain tissue lysate with MPPE1 antibody. Predicted molecular weight ~45 kDa.

Description

MPPE1 encodes a metallophosphoesterase protein that is widely brain expressed and is a member of the calcineurin-like phosphoesterase superfamily. Phosphoesterases are involved in a variety of diverse biochemical reactions, including protein phosphorylation-dephosphorylation processes that modulate functional properties of proteins. The MPPE1 gene is located on chromosome 18p11.21 and is flanked by the G protein Golf alpha (GNAL) gene and the myo-inositol monophosphatase gene (IMPA2). Variation in the MPPE1 gene might lead to an altered enzyme with downstream effects on protein phosphorylation involved in cellular signaling.

Application Notes

Optimal dilution of the MPPE1 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids Y43-R329) was used as the immunogen for the MPPE1 antibody.

Storage

After reconstitution, the MPPE1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.