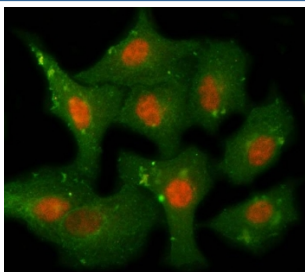


PPM1F Antibody / Protein phosphatase 1F / POPX2 (RQ8183)

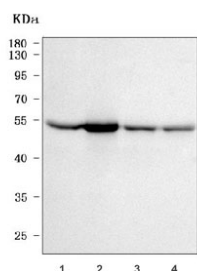
Catalog No.	Formulation	Size
RQ8183	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P49593
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This PPM1F antibody is available for research use only.



Immunofluorescent staining of FFPE human A549 cells with PPM1F antibody (red) and Beta Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) MCF7, 2) K562, 3) HeLa and 4) HepG2 cell lysate with PPM1F antibody. Predicted molecular weight ~50 kDa.

Description

Protein phosphatase 1F is an enzyme that in humans is encoded by the PPM1F gene. The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase can interact with Rho guanine nucleotide exchange factors (PIX), and thus block the effects of p21-activated kinase 1 (PAK), a protein kinase mediating biological effects downstream of Rho GTPases. Calcium/calmodulin-dependent protein kinase II gamma (CAMK2G/CAMK-II) is found to be one of the substrates of this phosphatase. The overexpression of this phosphatase or CAMK2G has been shown to mediate caspase-dependent apoptosis. An alternatively spliced transcript variant has been identified, but its full-length nature has not been determined.

Application Notes

Optimal dilution of the PPM1F antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids E17-S454) was used as the immunogen for the PPM1F antibody.

Storage

After reconstitution, the PPM1F 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.