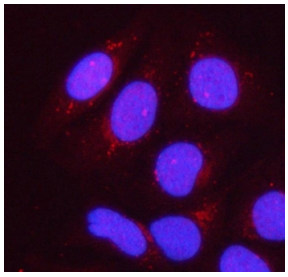
PPP1R15B Antibody / Protein phosphatase 1 regulatory subunit 15B (RQ8020)

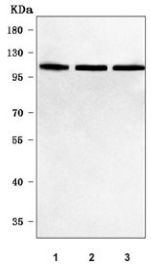
Catalog No.	Formulation	Size
RQ8020	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

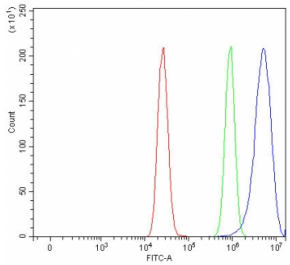
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q5SWA1
Localization	Cytoplasm
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This PPP1R15B antibody is available for research use only.



Immunofluorescent staining of FFPE human HeLa cells with PPP1R15B antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) 293T, 2) HeLa and 3) MCF7 cell lysate with PPP1R15B antibody. Predicted molecular weight ~79 kDa but may be observed at up to ~100 kDa, possibly due to phosphorylation.



Flow cytometry testing of fixed and permeabilized human MCF7 cells with PPP1R15B antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PPP1R15B antibody.

Description

PPP1R15B (Protein phosphatase 1, regulatory subunit 15b), also called CREP, promotes dephosphorylation of the transcription initiation factor EIF2-alpha through recruitment of protein phosphatase-1(PP1) catalytic subunits. The PPP1R15B gene is mapped to chromosome 1q32.1 based on an alignment of thePPP1R15B sequence by Hartz(2010). Harding et al.(2009) obtained Ppp1r15b -/- mice at a mendelian ratio. However, Ppp1r15b -/- newborns were half the size of their wildtype littermates, were notably pale, and failed to nurse, and none survived the first day of postnatal life. Ppp1r15b -/- embryos that were also homozygous for an Eif2-alpha mutation that prevented Eif2-alpha phosphorylation were normalized, including elevated birth size and restored red blood cell count, compared with Ppp1r15b -/- embryos with wildtype Eif2-alpha.

Application Notes

Optimal dilution of the PPP1R15B antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids Q211-D657) was used as the immunogen for the PPP1R15B antibody.

Storage

After reconstitution, the PPP1R15B antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

References (1)