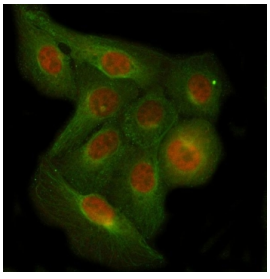
C7orf47 Antibody / PPP1R35 Protein Phosphatase Regulatory Antibody (RQ8253)

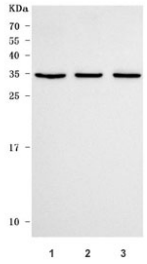
Catalog No.	Formulation	Size
RQ8253	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

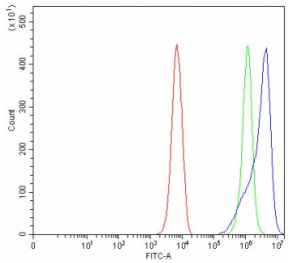
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q8TAP8
Localization	Cytoplasm, Nucleus
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This C7orf47 Antibody / PPP1R35 Protein Phosphatase Regulatory Antibody is available for research use only.



C7orf47 Antibody U-2 OS Cell IF. Immunofluorescence analysis of FFPE human U-2 OS cells using C7orf47 Antibody (PPP1R35 antibody, red) shows cytoplasmic and perinuclear staining, consistent with PPP1R35 localization as a protein phosphatase regulatory factor. Beta Tubulin mAb (green) highlights the microtubule network, providing structural context relative to the PPP1R35 signal. The distribution pattern supports association with intracellular regulatory complexes involved in phosphorylation-dependent cellular processes. HIER: steam section in pH 6 citrate buffer for 20 min.



C7orf47 Antibody Human Cell Line Panel WB. Western blot analysis of human 1) Jurkat, 2) SH-SY5Y, and 3) K562 cell lysates using C7orf47 Antibody (PPP1R35 antibody) detects a band at approximately 28 kDa, consistent with the predicted molecular weight of PPP1R35 / C7orf47. The consistent banding pattern across multiple cell lines supports reliable detection of this protein phosphatase regulatory factor involved in phosphorylation-dependent cellular processes.



C7orf47 Antibody K562 Cell FACS. Flow cytometry analysis of fixed and permeabilized human K562 cells using C7orf47 Antibody (PPP1R35 antibody) shows a clear rightward shift of the blue histogram relative to the isotype control (green) and unstained cells (red), indicating detection of PPP1R35 / C7orf47 expression. The intracellular signal distribution supports specific antibody binding to this protein phosphatase regulatory factor involved in phosphorylation-dependent cellular processes.

Description

Chromosome 7 open reading frame 47 (C7orf47), also known as protein phosphatase 1 regulatory subunit 35 (PPP1R35), is a regulatory protein that participates in cellular signaling pathways through modulation of protein phosphatase activity. The C7orf47 Antibody / PPP1R35 Protein Phosphatase Regulatory Antibody is designed to detect this protein in biological systems where phosphorylation-dependent signaling and cell cycle regulation are of interest. PPP1R35 is encoded on chromosome 7 and is associated with protein phosphatase 1 (PP1) regulatory complexes that control dephosphorylation events critical for cellular homeostasis.

The C7orf47 antibody, also referred to as PPP1R35 antibody and protein phosphatase 1 regulatory subunit 35 antibody in the literature, recognizes a protein that is primarily localized in the cytoplasm and associated with intracellular regulatory complexes. Protein phosphatase regulatory subunits such as PPP1R35 direct the activity, localization, and substrate specificity of PP1, thereby influencing a wide range of cellular processes including cell cycle progression, cytoskeletal organization, and signal transduction.

This C7orf47 Antibody / PPP1R35 Protein Phosphatase Regulatory Antibody is uniquely positioned for studies of phosphorylation-dependent regulation and cell cycle-associated signaling. PPP1R35 has been linked to centrosome and centriole biology, where precise control of phosphorylation states is essential for proper cell division and structural organization. In immunohistochemistry and immunofluorescence applications, PPP1R35 is typically observed as cytoplasmic staining with potential enrichment in regions associated with cell division machinery.

Protein phosphatase regulatory proteins are critical for maintaining the balance between kinase and phosphatase activity, ensuring accurate control of signaling pathways. Dysregulation of these pathways can contribute to cancer, developmental abnormalities, and other diseases characterized by altered cell cycle control. Although the full biological role of PPP1R35 continues to be defined, its association with phosphatase complexes suggests an important role in regulating key cellular processes.

This C7orf47 Antibody / PPP1R35 Protein Phosphatase Regulatory Antibody is suitable for detecting PPP1R35 expression in research applications focused on cell cycle regulation, phosphorylation signaling, and centrosome-associated processes. It supports investigation of protein phosphatase regulatory mechanisms and their involvement in normal physiology and disease-associated signaling changes.

This antibody supports investigation of protein phosphatase regulation, cell cycle signaling, and centrosome-associated pathways involving PPP1R35.

Explore our Signal Transduction Antibodies page to discover additional regulatory proteins involved in cellular signaling, transcriptional control, differentiation pathways, and oncogenic signaling networks.

Application Notes

Optimal dilution of the C7orf47 Antibody / PPP1R35 Protein Phosphatase Regulatory Antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids E27-A253) was used as the immunogen for the C7orf47 antibody.

Storage

After reconstitution, the C7orf47 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

C7orf47 antibody, PPP1R35 antibody, Protein phosphatase 1 regulatory subunit 35 antibody, PPP1R35 regulatory protein antibody

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