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PPP2R4 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14766

Specification

PPP2R4 antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	Q15257
Other Accession	NM_178001, NP_821068
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Chicken, Horse, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**39kDa KDa**

PPP2R4 antibody - C-terminal region - Additional Information

Gene ID 5524

Alias Symbol	**MGC2184, PP2A, PR53, PTPA**

Other Names
Serine/threonine-protein phosphatase 2A activator, 5.2.1.8, PP2A, subunit B', PR53 isoform, Phosphotyrosyl phosphatase activator, PTPA, Serine/threonine-protein phosphatase 2A regulatory subunit 4, Serine/threonine-protein phosphatase 2A regulatory subunit B', PPP2R4, PTPA

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-PPP2R4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
PPP2R4 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

PPP2R4 antibody - C-terminal region - Protein Information

Name PTPA (HGNC:9308)

Synonyms PPP2R4

Function
PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides (By similarity). Acts as a regulatory subunit for serine/threonine-protein phosphatase 2A (PP2A) (PubMed:<a

href="http://www.uniprot.org/citations/16916641" target="_blank">16916641, PubMed:36073231). Modulates PP2A activity or substrate specificity, probably by inducing a conformational change in the catalytic subunit, a proposed direct target of the PPIase (PubMed:16916641). Can reactivate inactive phosphatase PP2A-phosphatase methylesterase complexes (PP2A(i)) in presence of ATP and Mg(2+) (By similarity). Reversibly stimulates the variable phosphotyrosyl phosphatase activity of PP2A core heterodimer PP2A(D) in presence of ATP and Mg(2+) (in vitro) (PubMed:16916641). The phosphotyrosyl phosphatase activity is dependent of an ATPase activity of the PP2A(D):PPP2R4 complex (PubMed:16916641). Is involved in apoptosis; the function appears to be independent from PP2A (PubMed:17333320).

Cellular Location
Cytoplasm. Nucleus

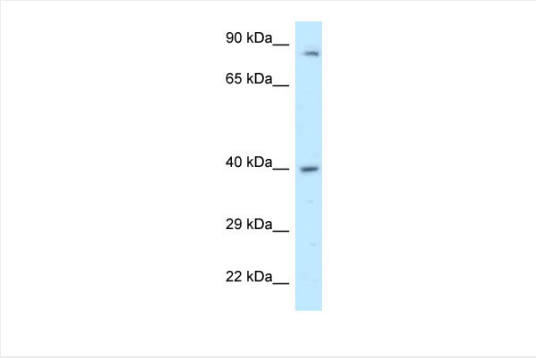
Tissue Location
Widely expressed.

PPP2R4 antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PPP2R4 antibody - C-terminal region - Images



WB Suggested Anti-PPP2R4 Antibody Titration: 1.0 µg/ml
Positive Control: 721_B Whole CellPPP2R4 is strongly supported by BioGPS gene expression data to be expressed in Human 721_B cells

PPP2R4 antibody - C-terminal region - References

Cayla X.,et al.J. Biol. Chem. 269:15668-15675(1994).

Van Hoof C.,et al.Genomics 28:261-272(1995).
Janssens V.,et al.Eur. J. Biochem. 267:4406-4413(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.