

## **Product datasheet for TA347792**

## IPP 2 (PPP1R2) Rabbit Polyclonal Antibody

**Product data:** 

**Product Type:** Primary Antibodies

Applications: WB

**Reactivity:** WB: 1:500-1:2000 Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: The immunogen for anti-PPP1R2 Antibody: A synthesized peptide derived from human

PPP1R2

Formulation: Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50%

glycerol. Store at -20?. Stable for 12 months from date of receipt

**Concentration:** lot specific

**Purification:** Immunogen affinity purified

Conjugation: Unconjugated

Storage: Store at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

**Predicted Protein Size:** 25 kDa

**Gene Name:** protein phosphatase 1 regulatory inhibitor subunit 2

Database Link: NP 006232

Entrez Gene 66849 MouseEntrez Gene 192361 RatEntrez Gene 5504 Human

P41236



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Background:

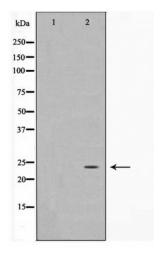
PPP1R2 a member of the protein phosphatase inhibitor 1 family. A dopamine- and cyclic AMP-regulated neuronal phosphoprotein. Both dopaminergic and glutamatergic (NMDA) receptor stimulation regulate the extent of DARPP32 phosphorylation, but in opposite directions. Dopamine D1 receptor stimulation enhances cAMP formation, resulting in the phosphorylation of DARPP32; phosphorylated DARPP32 is a potent protein phosphatase-1 inhibitor. NMDA receptor stimulation elevates intracellular calcium, which leads to activation of calcineurin and dephosphorylation of phospho-DARPP32, thereby reducing the phosphatase-1 inhibitory activity of DARPP32.

Synonyms: IPP-2; IPP2

**Note:** PPP1R2 Antibody detects endogenous levels of PPP1R2

**Protein Families:** Druggable Genome

## **Product images:**



Western blot analysis on Jurkat cell lysate using PPP1R2 Antibody