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## PPP1R1B (C) Antibody, Rabbit Polyclonal

**Cat#: R1521-2**

**Quantity: 100 ul**

**Predicted | Observed M.W.: 23 | 42 kDa**

**Lot#: Refer to vial**

**Application: WB**

**Uniprot ID: Q9UD71**

### **Background:**

PPP1R1B is a bifunctional signal transduction molecule. Dopaminergic and glutamatergic receptor stimulation regulates its phosphorylation and function as a kinase or phosphatase inhibitor. Both dopaminergic and glutamatergic 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.

### **Other Names:**

Protein phosphatase 1 regulatory subunit 1B, Dopamine- and cAMP-regulated neuronal phosphoprotein, DARPP32

### **Source and Purity:**

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of human PPP1R1B. Antibodies were purified by affinity purification using immunogen.

### **Storage Buffer and Condition:**

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

### **Species Specificity:**

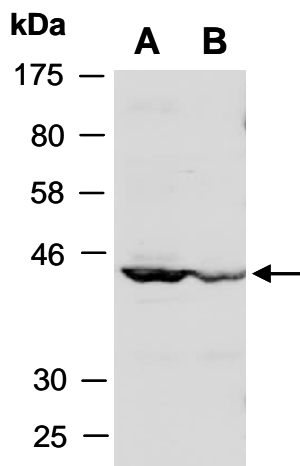
Human

### **Tested Applications:**

WB: 1:1,000-1:3,000 (detect endogenous protein\*)

\*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

**Product Data:**



**Fig 1.** Western blot of total cell extracts from (A) human HeLa, (B) human Jurkat; using anti-PPP1R1B (C) (R1521-2) at RT for 2 h.