

**DARPP-32 (phospho Thr34) Polyclonal Antibody**

|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YP0950  |
| <b>Reactivity :</b>          | Human;Mouse;Rat   |
| <b>Applications :</b>        | WB;IHC;IF;ELISA   |
| <b>Target :</b>              | DARPP-32  |
| <b>Fields :</b>              | >>cAMP signaling pathway;>>Dopaminergic synapse;>>Cocaine addiction;>>Amphetamine addiction;>>Alcoholism                                    |
| <b>Gene Name :</b>           | PPP1R1B   |
| <b>Protein Name :</b>        | Protein phosphatase 1 regulatory subunit 1B   |
| <b>Human Gene Id :</b>       | 84152   |
| <b>Human Swiss Prot No :</b> | Q9UD71  |
| <b>Mouse Gene Id :</b>       | 19049   |
| <b>Mouse Swiss Prot No :</b> | Q60829  |
| <b>Rat Gene Id :</b>         | 360616  |
| <b>Rat Swiss Prot No :</b>   | Q6J4I0  |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human DARPP-32 around the phosphorylation site of Thr34. AA range:18-67 |
| <b>Specificity :</b>         | Phospho-DARPP-32 (T34) Polyclonal Antibody detects endogenous levels of DARPP-32 protein only when phosphorylated at T34.                   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not  |

yet tested in other applications.

**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 35kD

**Background :** This gene encodes a bifunctional signal transduction molecule. Dopaminergic and glutamatergic receptor stimulation regulates its phosphorylation and function as a kinase or phosphatase inhibitor. As a target for dopamine, this gene may serve as a therapeutic target for neurologic and psychiatric disorders. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011],

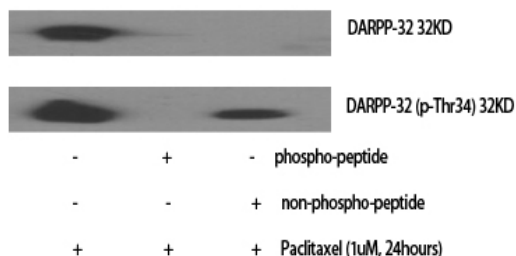
**Function :** function:Inhibitor of protein-phosphatase 1.,PTM:Dopamine- and cyclic AMP-regulated neuronal phosphoprotein.,PTM:Phosphorylation of Thr-34 is required for activity.,similarity:Belongs to the protein phosphatase inhibitor 1 family.,

**Subcellular Location :** Cytoplasm.

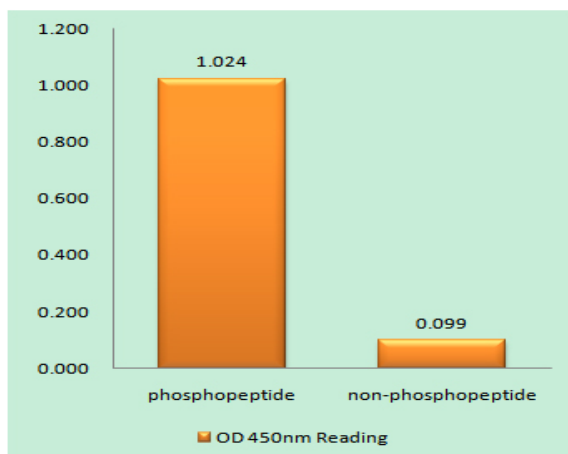
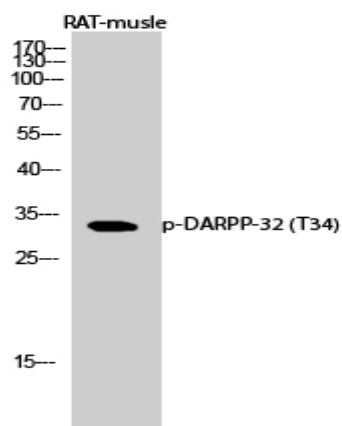
**Expression :** Adipose tissue,Brain,Cerebellum,Colon,Ovary,

## Products Images

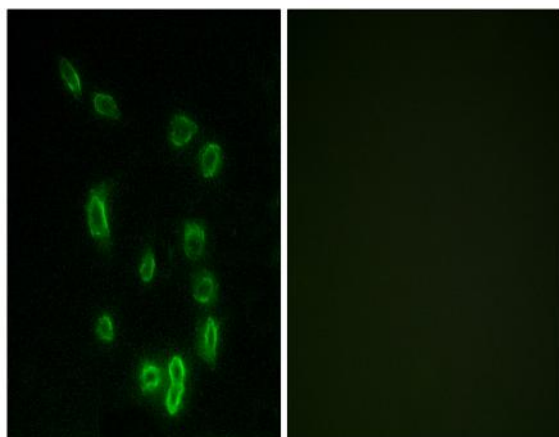
Western Blot analysis of various cells using Phospho-DARPP-32 (T34) Polyclonal Antibody diluted at 1:1000



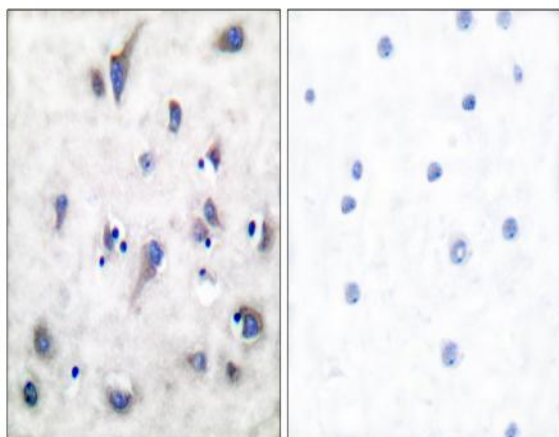
Western Blot analysis of RAT-muscle cells using Phospho-DARPP-32 (T34) Polyclonal Antibody diluted at 1:1000



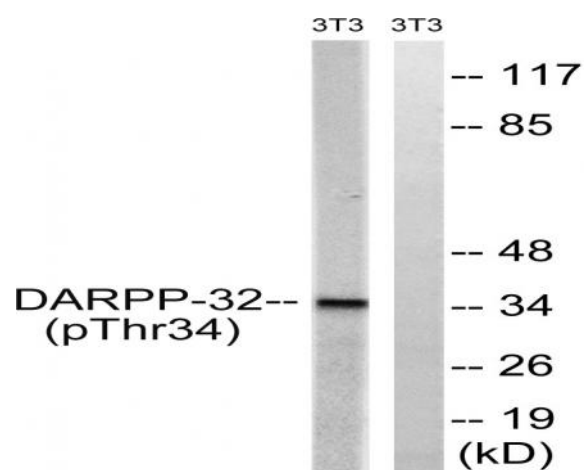
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using DARPP-32 (Phospho-Thr34) Antibody



Immunofluorescence analysis of HepG2 cells, using DARPP-32 (Phospho-Thr34) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using DARPP-32 (Phospho-Thr34) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from NIH/3T3 cells treated with PMA 125ng/ml 30', using DARPP-32 (Phospho-Thr34) Antibody. The lane on the right is blocked with the phospho peptide.