# Human/Mouse/Rat DARPP-32 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF6259

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Human/Mouse/Rat |
| **Specificity** | Detects human, mouse, and rat DARPP-32 in Western blots. |
| **Source** | Polyclonal Goat IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | *E. coli*-derived recombinant human DARPP−32<br>Arg51-Ala204<br>Accession # Q94D71 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS. |

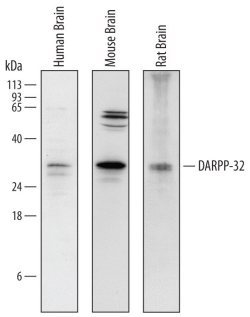
## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Western Blot** | 1 µg/mL | See Below |
| **Immunohistochemistry** | 5-15 µg/mL | See Below |

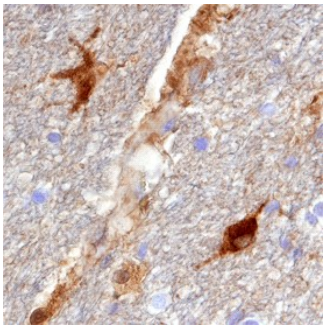
## DATA

### Western Blot



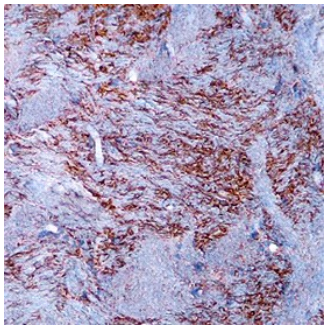

**Detection of Human, Mouse, and Rat DARPP-32 by Western Blot.**
Western blot shows lysates of human brain tissue, mouse brain tissue, and rat brain tissue. PVDF Membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse/Rat DARPP-32 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6259) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for DARPP-32 at approximately 32 - 35 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

### Immunohistochemistry



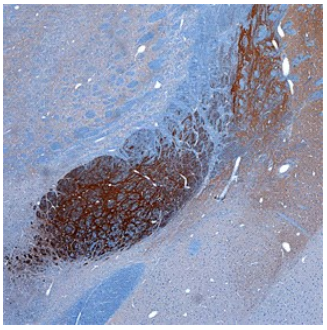
**DARPP-32 in Human Brain.**
DARPP-32 was detected in immersion fixed paraffin-embedded sections of human brain (hippocampus) using Goat Anti-Human/Mouse/Rat DARPP-32 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6259) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to neurons and glial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

### Immunohistochemistry



**DARPP-32 in Mouse Brain.**
DARPP-32 was detected in perfusion fixed frozen sections of mouse brain (caudate putamen) using Goat Anti-Human/Mouse/Rat DARPP-32 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6259) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal processes. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

### Immunohistochemistry



**DARPP-32 in Rat Brain.**
DARPP-32 was detected in perfusion fixed frozen sections of rat brain (globus pallidus) using Goat Anti-Human/Mouse/Rat DARPP-32 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6259) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal processes. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

## PREPARATION AND STORAGE

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|---|---|
| **Reconstitution** | Reconstitute at 0.2 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |



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## BACKGROUND

Dopamine- and cAMP-Regulated Phosphoprotein, Mr 32 kDa (DARPP-32), also known as PPP1R1B, is a 23 kDa protein that anomalously migrates at about 32-35 kDa on SDS-PAGE. When phosphorylated at T34 by protein kinase A (PKA), DARPP-32 is a potent inhibitor of protein phosphatase 1 (PP1). Dephosphorylation of DARPP-32 at T34 is achieved primarily by the calcium-dependent activation of the phosphatase calcineurin. DARPP-32 is expressed almost exclusively in neuronal tissues, with highest levels in dopamine-innervated neurons.



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