Mouse/Rat Phospho-DARPP-32 (T34) Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG
Catalog Number: AF2847

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat DARPP-32 when phosphorylated at T34 in Western blots. There is weak cross-reactivity with phosphorylated PP1 Inhibitor-1, which contains a nearly identical phosphorylation site. Reactivity with human Phospho-DARPP-32 has not been confirmed.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing mouse DARPP-32 T34 site
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

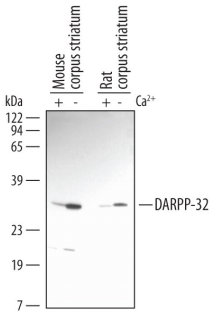
APPLICATIONS

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

DATA

Western Blot



Detection of Rat and Mouse Phospho-DARPP-32 (T34) by Western Blot. Western blot shows lysates of rat and mouse corpus striata tissue untreated (-) or treated (+) with calcium for 1 hour. PVDF membrane was probed with 1 µg/mL of Rabbit Anti-Mouse/Rat Phospho-DARPP-32 (T34) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2847), followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-DARPP-32 (T34) at approximately 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

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. *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.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Dopamine- and cAMP-Regulated Neuronal Phosphoprotein, Mr 32 kDa (DARPP-32), also known as PPP1R1B, is a 23 kilodalton protein which anomalously migrates at about 32 - 35 kDa on SDS-PAGE. When phosphorylated at T34 by protein kinase A (PKA), it 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. Phosphorylation of DARPP-32 at T34 has been used as an index of PKA activation.

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