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Datasheet for 612-401-C73

DARPP-32 Phospho T34 Antibody

Overview

Description:	Anti-DARPP-32 pT34 (RABBIT) Antibody - 612-401-C73
Item No.:	612-401-C73
Size:	100 µL
Applications:	WB
Reactivity:	Rat
Host Species:	Rabbit

Product Details

Background:	DARPP-32 Antibody detects DARPP-32 which is a dopamine (DA) and cAMP-regulated ~32k phosphoprotein that is associated with dopaminoceptive neurons. The protein inhibits protein phosphatase I when it is phosphorylated on Thr34. In contrast, when DARPP-32 is phosphorylated on Thr75 the protein acts as an inhibitor of PKA. Phosphorylation of DARPP-32 is thought to play a critical role in the regulation of dopaminergic neurotransmission. In addition, the activity of DARPP-32 is also thought to play important roles in the actions of alcohol, caffeine and Prozac®. Anti-DARPP-32 pT34 Antibody is ideal for investigators involved in Neuroscience and Cell Signaling Research.
Synonyms:	Protein phosphatase 1 regulatory subunit 1B, Dopamine- and cAMP-regulated neuronal phosphoprotein
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Ppp1r1b
Reactivity:	Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-DARPP 32 pT34 Antibody was produced in rabbit by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Thr34 conjugated to KLH.
Purity/Specificity:	Anti-DARPP-32 pT34 antibody is directed against DARPP-32. Anti-DARPP-32 pT34 antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. This antibody is specific for phosphorylated DARPP-32 pT34. Minimal reactivity occurs against non-phosphorylated DARPP-32 pT34. Reactivity is completely blocked by treatment with lambda-phosphatase. Reactivity against DARPP-32 pT34 occurs from rat sources. However, reactivity is also expected against bovine, canine, human, mouse and NHP sources.
Relevant Links:	• NCBI - NP_612530.1 • UniProtKB - Q6J4I0 • GeneID - 360616

Application Details

Tested Applications:	WB
Application Note:	Anti-DARPP-32 pT34 Antibody is tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 32 kDa in size corresponding to DARPP 32 protein phosphorylated at Thr34 in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

Formulation

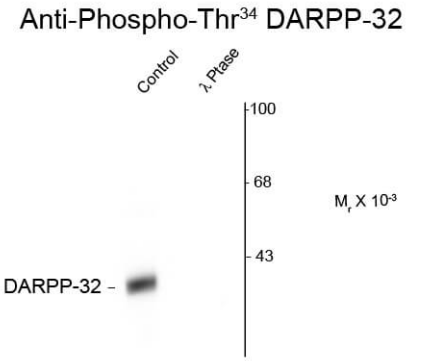
Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western blot of rat caudate showing phospho-specific immunolabeling of the ~32k DARPP-32 protein phosphorylated at Thr34.

Western Blot
Western Blot of Rabbit anti-DARPP-32 Thr34 Antibody. Lane 1: rat caudate lysate. Lane 2: rat caudate lysate incubated in λ-Ptase (1200 units for 30 min). Load: 10 µg per lane. Primary antibody: DARPP-32 Thr34 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~32kDa/~32kDa for DARPP-32 phosphorylated at Thr34. Other band(s): none.

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