Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 612-401-D24

DARPP-32 Antibody

Overview

Description:	Anti-DARPP-32 (RABBIT) Antibody - 612-401-D24
Item No.:	612-401-D24
Size:	100 µL
Applications:	IHC, 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 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
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-DARPP-32 Antibody was produced in rabbit by repeated immunizations with synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH.

Purity/Specificity:	Anti-DARPP-32 antibody is directed against DARPP-32. Anti-DARPP-32 antibody was affinity purified from monospecific antiserum by immunoaffinity purification. Anti-DARPP-32 antibody recognizes DARPP-32 from rat sources. Cross reactivity with DARPP-32 from other species has not been determined. However, reactivity is also expected from the following species based on 100% sequence homology: bovine, canine, chicken, human, mouse, non-human primate, Xenopus.
Relevant Links:	• UniProtKB - Q6J4I0 • GeneID - 360616 • UniProtKB - Q6J4I0.1

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-DARPP-32 (Rabbit) Antibody is tested for use in ELISA, Western Blotting and IHC. 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 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
IHC:	1:250
WB:	1:1000

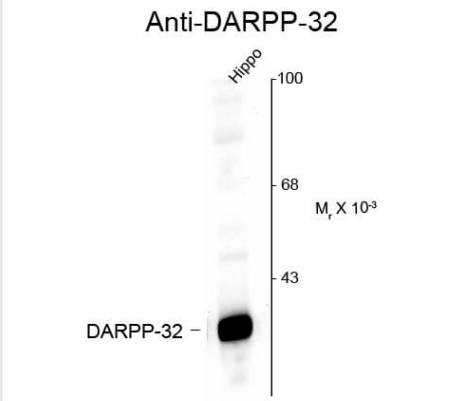
Formulation

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 hippocampal lysate showing specific immunolabeling of the ~32k DARPP protein.

Western Blot

Western Blot of Anti-DARPP-32 (Rabbit) Antibody. Lane 1: rat hippocampal lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: DARPP-32 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 protein. Other band(s): none.

Disclaimer