

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 dopaminergic 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

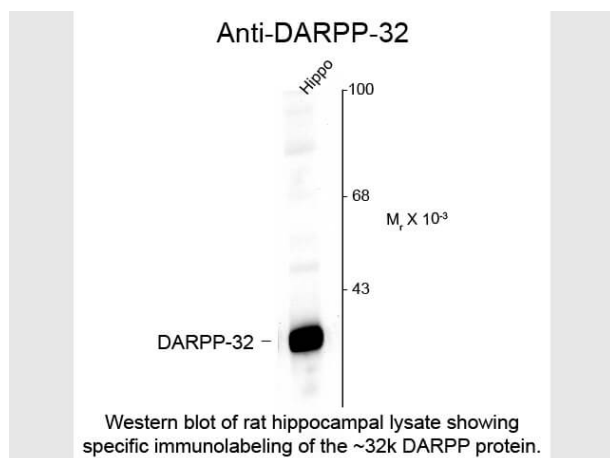
Shipping & Handling

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

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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.