

Datasheet for 612-401-D26**DARPP-32 phospho S137 Antibody****Overview**

Description:	Anti-DARPP-32 pS137 (RABBIT) Antibody - 612-401-D26
Item No.:	612-401-D26
Size:	100 µL
Applications:	WB
Reactivity:	Mouse, 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®. Serine 137 is phosphorylated by casein kinase 1 and phosphorylation of this site is increased following acute administration of Prozac®. Anti-DARPP-32 pS137 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:	Mouse, Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-DARPP-32 pS137 Antibody was produced in rabbit by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser137 conjugated to KLH.
Purity/Specificity:	Anti-DARPP-32 pS137 antibody is directed against DARPP-32 S137. Anti-DARPP-32 pS137 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 pS137. Minimal reactivity occurs against non-phosphorylated DARPP-32 pS137. Reactivity is completely blocked by treatment with lambda-phosphatase. Reactivity against DARPP-32 pS137 occurs from rat sources. However, reactivity is also expected against bovine, canine, human, mouse and NHP sources.
Relevant Links:	• UniProtKB - Q6J4I0 • GeneID - 360616 • UniProtKB - Q6J4I0.1

Application Details

Tested Applications:	WB
Application Note:	Anti-DARPP-32 pS137 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 Ser137 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

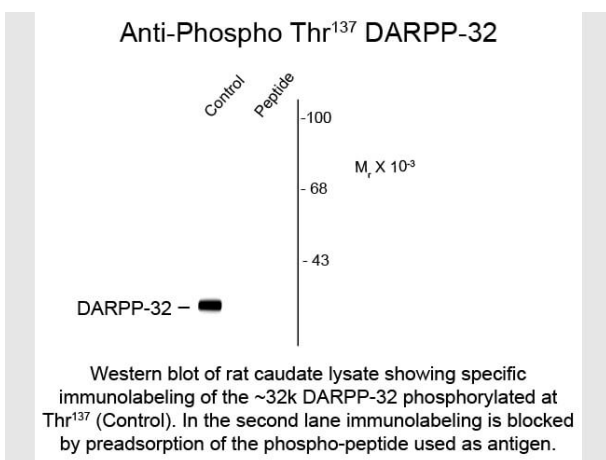
Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
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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 pS137 (Rabbit) Antibody. Lane 1: rat caudate lysate. Lane 2: rat caudate lysate blocked by preadsorption of the phospho-peptide. Load: 10 µg per lane. Primary antibody: DARPP-32 pS137 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/~37kDa for DARPP-32 phosphorylated at Thr137. 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.