

Datasheet for 600-401-D02**14-3-3 phospho S58 Antibody****Overview**

Description:	Anti-14-3-3 pS58 (RABBIT) Antibody - 600-401-D02
Item No.:	600-401-D02
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Human, Rat
Host Species:	Rabbit

Product Details

Background:	14-3-3 pS58 antibody detects 14-3-3 protein phosphorylated at S58. 14-3-3 is a member of a family of highly conserved proteins that appear to have multiple roles in cell signaling. 14-3-3 is abundantly expressed in the brain and has been detected in the cerebrospinal fluid of patients with different neurological disorders. 14-3-3 proteins bind protein ligands that are typically phosphorylated on serine or threonine residues and regulate the functions of these binding partners by a number of different mechanisms. 14-3-3 affect a diverse array of cellular processes including the cell cycle and transcription, signal transduction and intracellular trafficking. These functions are facilitated by, if not dependent on, its dimeric structure. Recent work has demonstrated that the dimeric status of the 14-3-3 protein is regulated by site-specific serine phosphorylation. Anti-14-3-3 antibody is ideal for investigators involved in Cell Signaling, Neuroscience, Signal Transduction research.
Synonyms:	14-3-3 protein beta/alpha, Prepronerve growth factor RNH-1, Protein kinase C inhibitor protein 1, KCIP-1, 14-3-3 protein beta/alpha N-terminally processed, Ywhab
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Ywhab
Reactivity:	Human, Rat

PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-14-3-3 pS58 antibody was produced by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser58.
Purity/Specificity:	Anti-14-3-3 pS58 antibody is directed against rat 14-3-3 protein phosphorylated at S58. The 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 14-3-3. Minimal reactivity occurs against non-phosphorylated 14-3-3. Reactivity against 14-3-3 occurs from rat and human sources. Reactivity is expected against the following species based on 100% sequence homology: bovine, canine, chicken, mouse, non-human primates, sheep, Xenopus and zebra fish.
Relevant Links:	• UniProtKB - P35213 • GeneID - 56011 • NCBI - NP_062250.1

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-14-3-3 pS58 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 29 kDa in size corresponding to the 14-3-3 proteins phosphorylated at Ser58 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:	1:500
WB:	1:1000

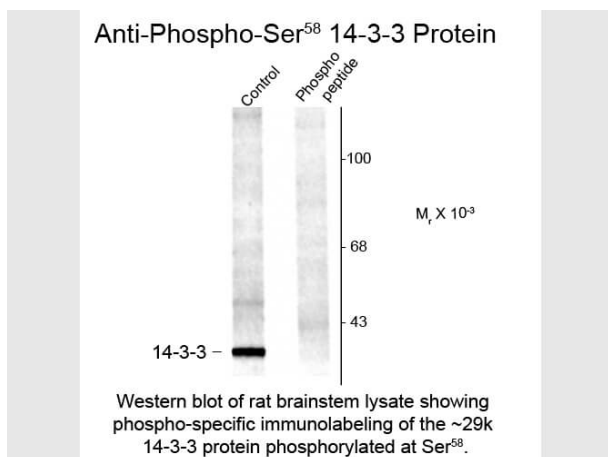
Formulation

Physical State:	Liquid
Concentration:	titrated reagent Sufficient to run approximately 10 miniblots
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 Rabbit Anti-14-3-3 pS58 Antibody. Lane 1: rat brainstem lysate. Lane 2: rat brainstem lysate blocked by the phosphopeptide. Load: 10 µg per lane. Primary antibody: 14-3-3 pS58 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: ~29kDa, ~29kDa for 14-3-3 protein phosphorylated at Ser58. 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.