

Datasheet for 612-601-D32**Dynamin phospho S774 Antibody****Overview**

Description:	Anti-Dynamin pS774 (SHEEP) Antibody - 612-601-D32
Item No.:	612-601-D32
Size:	100 µL
Applications:	WB
Reactivity:	Rat
Host Species:	Sheep

Product Details

Background:	Dynamin Antibody detects Dynamin which is a member of a group of nerve terminal proteins called dephosphins that regulate synaptic vesicle endocytosis. Cyclin dependent protein kinase 5 phosphorylates dynamin at Ser774 and Ser778 that are the phosphorylation sites on dynamin phosphorylated in vivo. Phosphorylation of Ser774 by GSK3 has recently been shown to control activity-dependent bulk endocytosis of synaptic vesicles. Anti-Dynamin pS774 Antibody is ideal for investigators involved in Cell Signaling, Cell Motility, Neuroscience and Cancer Research.
Synonyms:	sheep anti-Dynamin pS774 Antibody, Dynamin-1, B-dynamin, D100, Dnm, Dnm1
Host Species:	Sheep
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Dnm1
Reactivity:	Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Dynamin pS774 Antibody was produced in sheep by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser774 conjugated to KLH.

Purity/Specificity: Anti-Dynamin pS774 antibody is directed against Dynamin. Anti-Dynamin pS774 antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phosphopeptide coupled to agarose beads followed by solid phase adsorption(s) against non-phosphopeptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-sheep Serum. This antibody is specific for phosphorylated Dynamin pS774. Minimal reactivity occurs against non-phosphorylated Dynamin pS774. Reactivity is completely blocked by treatment with lambda-phosphatase. Reactivity against Dynamin pS774 occurs from rat sources. However, reactivity is also expected against bovine, canine, chicken, human, mouse and NHP.

Relevant Links:

- [UniProtKB - P21575](#)
- [GeneID - 140694](#)
- [NCBI - AAA16746.1](#)

Application Details

Tested Applications: WB

Application Note: Anti-Dynamin pS774 Antibody is tested for use in Western Blotting and ICC and suitable in IHC and ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 95 kDa in size corresponding to dynamin protein phosphorylated at Ser774 in the appropriate cell lysate or extract. Anti-Dynamin pS774 antibody labels the purified protein phosphorylated in vitro by cdk5 but not by PKC. Anti-Dynamin pS774 antibody does not cross react with other purified substrates of cdk5 (e.g. amphiphysin and synapsin).

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000

IF: 1:1000

IHC: 1:1000

WB: 1:1000

Formulation

Physical State: Liquid

Concentration: Titrated value sufficient to run approximately 10 mini blots.

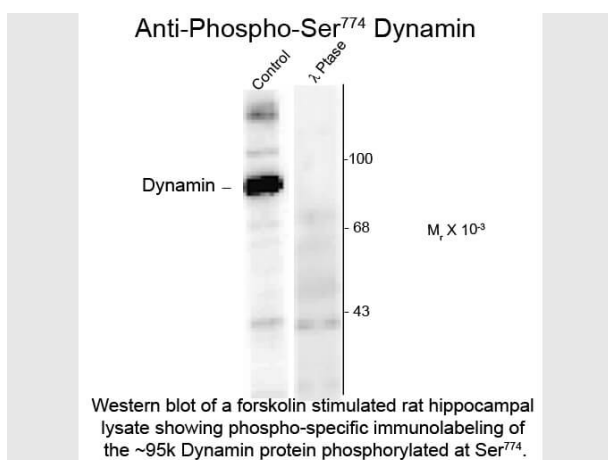
Buffer: 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5

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-Dynamin pS774 (Sheep) Antibody.
 Lane 1: rat hippocampal lysate stimulated with forskolin.
 Lane 2: rat hippocampal lysate stimulated with forskolin incubated in λ -Ptase (1200 units for 30 min). Load: 10 μ g per lane. Primary antibody: Dynamin pS774 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ sheep secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~95kDa/~95kDa for dynamin phosphorylated at Ser774.

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.