

Datasheet for 612-601-D33**Dynamin phospho S778 Antibody****Overview**

Description:	Anti-Dynamin pS778 (SHEEP) Antibody - 612-601-D33
Item No.:	612-601-D33
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 these sites on dynamin is thought to play a key role in synaptic vesicle trafficking. Anti-Dynamin pS778 Antibody is ideal for investigators involved in Cell Signaling, Cell Motility, Neuroscience and Cancer Research.
Synonyms:	sheep anti-Dynamin pS778 Antibody, Dynamin-1, B-dynamin, D100, Dnm1, Dnm
Host Species:	Sheep
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Dnm1
Reactivity:	Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Dynamin pS778 Antibody was produced in sheep by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser778 conjugated to KLH.

Purity/Specificity: Anti-Dynamin pS778 antibody is directed against human Dynamin. Anti-Dynamin pS778 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-sheep Serum. This antibody is specific for phosphorylated Dynamin pS778. Minimal reactivity occurs against non-phosphorylated Dynamin pS778. Reactivity is completely blocked by treatment with lambda-phosphatase. Reactivity against Dynamin pS778 occurs from rat sources. However, reactivity is also expected against bovine, canine, chicken, human and mouse.

Relevant Links:

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

Application Details

Tested Applications:	WB
Application Note:	Anti-Dynamin pS778 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 95 kDa in size corresponding to dynamin protein phosphorylated at Ser778 in the appropriate cell lysate or extract. Anti-Dynamin pS778 antibody labels the purified protein phosphorylated in vitro by cdk5 but not by PKC. Anti-Dynamin pS778 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
WB:	1:1000

Formulation

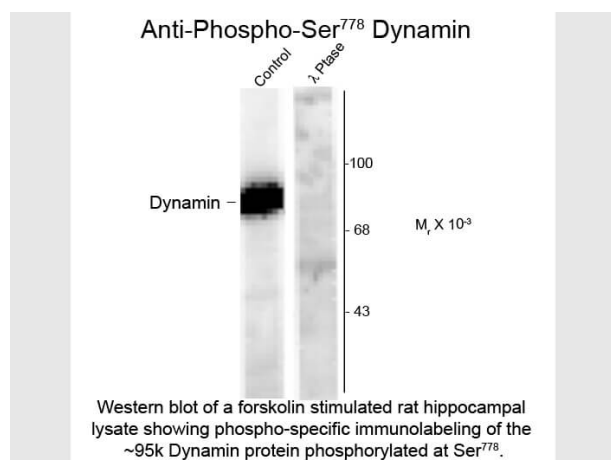
Physical State:	Liquid
Concentration:	Titred value sufficient to run approximately 10 mini blots.
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

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 pS778 (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 pS778 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 Ser778 . Other band(s): none.

References

- Liu GT et al. Endosomal phosphatidylinositol 3-phosphate controls synaptic vesicle cycling and neurotransmission. *EMBO J.* (2022)

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.