

Datasheet for ABIN6658245

anti-Dynamin 1 antibody (pSer778)



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1 Image

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Overview

Quantity:	100 µL
Target:	Dynamin 1 (DNM1)
Binding Specificity:	pSer778
Reactivity:	Rat
Host:	Sheep
Clonality:	Polyclonal
Conjugate:	This Dynamin 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Dynamin phospho S778 Antibody
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.
Isotype:	IgG
Cross-Reactivity (Details):	Anti-Dynamin pS778 antibody is directed against human Dynamin.
Purification:	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.

Target Details

Target:	Dynamin 1 (DNM1)
Alternative Name:	Dynamin (DNM1 Products)
Background:	Synonyms: sheep anti-Dynamin pS778 Antibody, Dynamin-1, B-dynamin, D100 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. Gene Name: DNM1
Gene ID:	140694
UniProt:	P21575
Pathways:	Toll-Like Receptors Cascades , CXCR4-mediated Signaling Events , Thromboxane A2 Receptor Signaling

Application Details

Application Notes:	ELISA_Dilution: 1:10,000 Western_Blot_Dilution: 1:1000
Comment:	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).
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	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
Storage:	4 °C, -20 °C

Handling

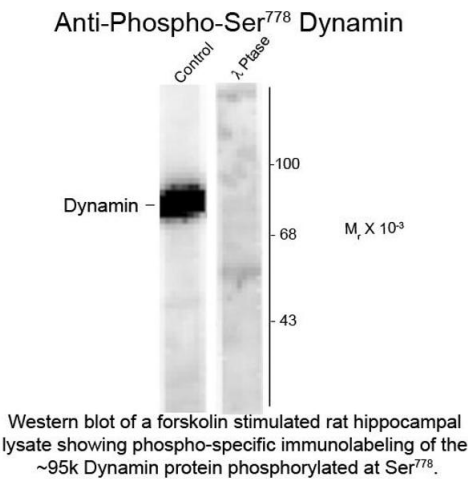
Storage Comment: Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiry Date: 12 months

Publications

Product cited in: Liu, Kochlamazashvili, Puchkov, Müller, Schultz, Mackintosh, Vollweiter, Haucke, Soykan: "Endosomal phosphatidylinositol 3-phosphate controls synaptic vesicle cycling and neurotransmission." in: **The EMBO journal**, Vol. 41, Issue 9, pp. e109352, (2022) ([PubMed](#)).

Images



Western Blotting

Image 1. Western Blot of Anti-Dynamin pS778 (Sheep) Antibody - 612-601-D33 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 µg per lane. Primary antibody: Dynamin pS778 antibody at 1:400 for overnight at 4°C. Secondary antibody: 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.