Datasheet for ABIN361465

anti-Dynamin 1 antibody (pSer778)

2 Images

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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)

Product Details

Immunogen:	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser778 conjugated to KLH
Specificity:	Specific for the ~95k dynamin protein phosphorylated at Ser778. Labels the purified protein phosphorylated in vitro by cdk5 but not by PKC. Does not cross react with other purified substrates of cdk5 (e.g. amphiphysin and synapsin). Immunolabeling is blocked by (-phosphatase treatment.
Cross-Reactivity:	Rat (Rattus)
Predicted Reactivity:	bovine, canine, chicken, human, mouse
Purification:	Antigen Affinity Purified from Pooled Serum

Target Details

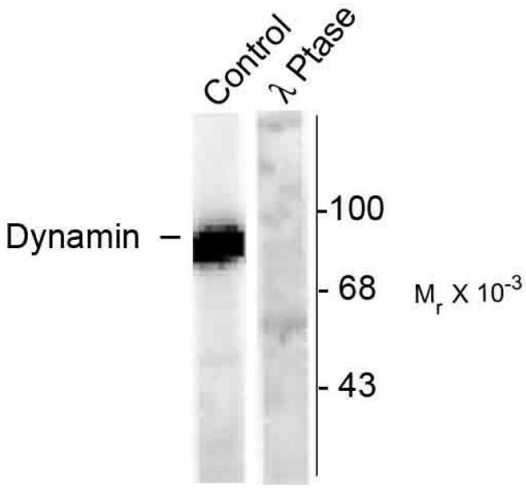
Target:	Dynamin 1 (DNM1)
Alternative Name:	DNM1 (DNM1 Products)
Background:	Dynamin is a member of a group of nerve terminal proteins called dephosphins that regulate synaptic vesicle endocytosis (Cousin et al., 2001, Graham et al., 2002, Tsuboi et al., 2002). Cyclin dependent protein kinase 5 phosphorylates dynamin at Ser774 and Ser778 that are the phosphorylation sites on dynamin phosphorylated in vivo (Tan et al., 2003). Phosphorylation of these sites on dynamin is thought to play a key role in synaptic vesicle trafficking. Anti-Phospho Ser778 Dynamin Western blot of rat hippocampal lysate stimulated with forskolin showing specific immunolabeling of the ~95k dynamin phosphorylated at Ser778 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: (-Ptase). The blot is identical to the control except that it was incubated in (-Ptase (1200 units for 30 min) before being exposed to the Anti-Ser778 dynamin. The immunolabeling is completely eliminated by treatment with (-Ptase.
Molecular Weight:	'95 kDa
Gene ID:	140694
UniProt:	P21575
Pathways:	Toll-Like Receptors Cascades, CXCR4-mediated Signaling Events, Thromboxane A2 Receptor Signaling

Application Details

Application Notes:	Recommended Dilution: WB: 1:1000 Quality Control: Western blots performed on each lot.
Restrictions:	For Research Use only

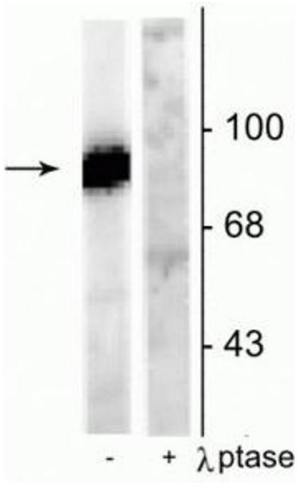
Handling

Format:	Liquid
Buffer:	100 µL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50 % glycerol.
Storage:	-20 °C



Western Blotting

Image 1. Western blots of rat hippocampal lysate stimulated with forskolin showing specific immunolabeling of the ~95k dynamin phosphorylated at Ser778 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: (-Ptase). The blot is identical to the control except that it was incubated in (-Ptase (1200 units for 30 min) before being exposed to the Anti-Ser778 dynamin. The immunolabeling is completely eliminated by treatment with (-Ptase.



Western Blotting

Image 2. Western blot of rat hippocampal lysate stimulated with forskolin showing specific immunolabeling of the ~95 kDa dynamin phosphorylated at Ser778 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by blot treatment with lambda phosphatase (λ-Ptase, 1200 units for 30 min).