Datasheet for ABIN372616

anti-Dynamin 1 antibody (pSer774)

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Overview

Quantity:	0.1 mL
Target:	Dynamin 1 (DNM1)
Binding Specificity:	pSer774
Reactivity:	Human, Mouse, Rat, Dog, Cow, Chicken, Non-Human Primate
Host:	Sheep
Clonality:	Polyclonal
Conjugate:	This Dynamin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser774 of rat Dynamin.
Isotype:	IgG
Specificity:	Specific for the ~95k Dynamin protein phosphorylated at Ser774. This antiboy 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 lambda-phosphatase treatment.
Cross-Reactivity (Details):	Species reactivity (expected):Human, Bovine, Canine, Chicken, Mouse and non-Human Primates. Species reactivity (tested):Rat.

Product Details

Purification:	Sequential Chromatography on phospho- and dephosphopeptide affinity columns.

Target Details

Target:	Dynamin 1 (DNM1)
Alternative Name:	Dynamin-1 (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.Synonyms: DNM, DNM1
Gene ID:	140694
NCBI Accession:	NP_542420
UniProt:	P21575
Pathways:	Toll-Like Receptors Cascades, CXCR4-mediated Signaling Events, Thromboxane A2 Receptor Signaling

Application Details

Application Notes:	Western Blot: 1/1000. Immunohistochemistry (Fixed Cultured Neurons): 1/1000. (See Ref.3)Immunofluorescence (Fixed Cultured Neurons): 1/1000. (See Ref.3) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg/mL BSA and 50 % Glycerol.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store the antibody undiluted (in aliquots) at-20 °C.

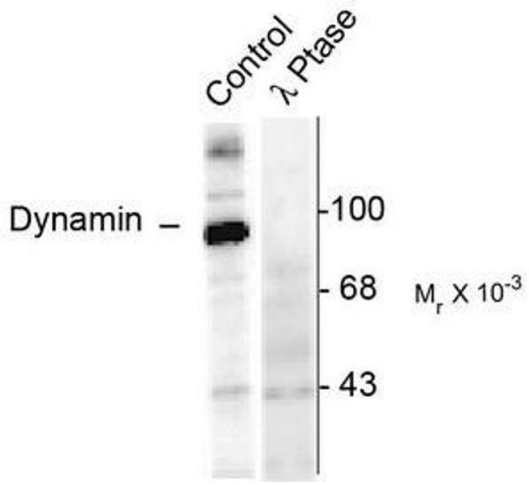

Image 1.

