Datasheet for ABIN5690706

anti-Dynamin 1 antibody (pSer778)

Go to Product page

Overview

Quantity:	0.1 mL
Target:	Dynamin 1 (DNM1)
Binding Specificity:	pSer778
Reactivity:	Human, Mouse, Rat
Host:	Sheep
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	Dynamin (Ser778) polyclonal antibody was raised against a synthetic phosphopeptide corresponding to amino acids residues surrounding the phospho-Ser778 of human, mouse and rat dynamin.
Purification:	Affinity Purified

Target Details

Target:	Dynamin 1 (DNM1)
Alternative Name:	Dynamin (DNM1 Products)
Background:	Dynamin 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

Target Details

	trafficking.
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:	Dynamin antibody for phospho-Ser778 dynamin labels the purified protein phosphorylated in vitro by Cdk5 but not PKC (Tan, et al. 2003). The labeling of the dynamin band in Western blots of rat brain was blocked by the phosphopeptide used as antigen but not by the corresponding dephosphopeptide. Sheep anti- Dynamin (Ser778) does not cross react with other purified substrates of CDK5 (e.g. amphiphysin and synapsin). Applications include Western Blots (WB). Human, mouse and rat have 100 % amino acid sequence identity with the antigen used to raise the antibody. When internally tested under ideal conditions the working dilutions were 1:1000 for WB.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 µLin 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50 % glycerol.
Storage:	-20 °C
Storage Comment:	For long term storage -80°C is recommended, but shorter term storage at -20°C is also acceptable as aliquots may be taken without freeze/thawing due to the presence of 50% glycerol. Stock solutions are stable for a minimum of 1 year at -20°C.