

ARG52270 anti-Dynamin phospho (Ser778) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Sheep Polyclonal antibody recognizes Dynamin phospho (Ser778)
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Bov, Chk, Dog
Tested Application	WB
Host	Sheep
Clonality	Polyclonal
Isotype	IgG
Target Name	Dynamin
Species	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser778 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	DNM; EC 3.6.5.5; Dynamin-1; EIEE31

Application Instructions

Application table	Application	Dilution
	WB	1:1,000

Application Note
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 λ-phosphatase treatment.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

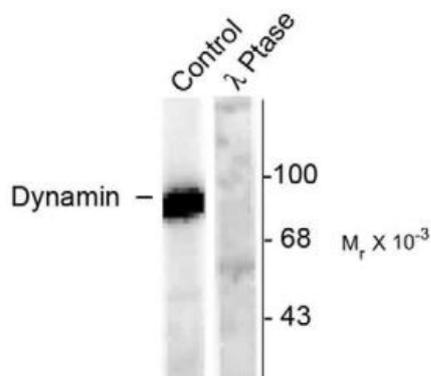
Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 140694 Rat Swiss-port # P21575 Rat
Gene Symbol	DNM1
Gene Full Name	dynamamin 1
Background	Dynamamin 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 dynamamin at Ser774 and Ser778 that are the phosphorylation sites on dynamamin phosphorylated in vivo (Tan et al., 2003). Phosphorylation of these sites on dynamamin is thought to play a key role in synaptic vesicle trafficking.
Research Area	Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	97 kDa

Images



ARG52270 anti-Dynamamin phospho (Ser778) antibody WB image

Western blot: Rat hippocampal lysate stimulated with forskolin then stained with ARG52270 anti-Dynamamin phospho (Ser778) antibody showing specific immunolabeling of the ~95k dynamamin phosphorylated at Ser778 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: λ -Ptase). The blot is identical to the control except that it was incubated in λ -Ptase (1200 units for 30 min) before being exposed to the Anti-Ser778 dynamamin. The immunolabeling is completely eliminated by treatment with λ -Ptase.