

ARG52269 anti-Dynamin phospho (Ser774) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Sheep Polyclonal antibody recognizes Dynamin phospho (Ser774)
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Bov, Chk, Dog, NHuPrm
Tested Application	ICC/IF, IHC-P, WB
Host	Sheep
Clonality	Polyclonal
Isotype	IgG
Target Name	Dynamin
Species	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser774 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	DNM; EC 3.6.5.5; Dynamin-1; EIEE31

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:1000
	IHC-P	1:1000
	WB	1:1000
Application Note	<p>Specific for the ~95k dynamin protein phosphorylated at Ser774. 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.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	

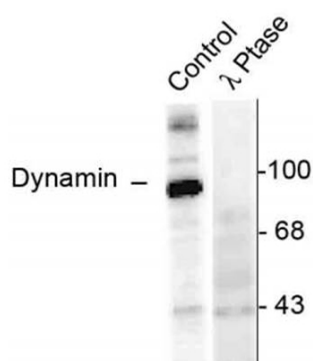
Properties

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.

Bioinformation

Database links	GeneID: 140694 Rat Swiss-port # P21575 Rat
Gene Symbol	DNM1
Gene Full Name	dynamin 1
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 Ser774 by GSK3 has recently been shown to control activitydependent bulk endocytosis of synaptic vesicles (Clayton et al., 2010)
Highlight	Related Antibody Duos and Panels: ARG30101 Phospho Dynamin Antibody Duo (Total, pS774) Related products: Dynamin antibodies ; Dynamin Duos / Panels ; Anti-Sheep IgG secondary antibodies ;
Research Area	Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	97 kDa

Images



ARG52269 anti-Dynamin phospho (Ser774) antibody WB image

Western blot: forskolin stimulated Rat hippocampal lysate showing phospho-specific immunolabeling of the ~95k Dynamin protein phosphorylated at Ser 774 stained with ARG52269 anti-Dynamin phospho (Ser774) antibody.