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phospho-Dynamin 1 (Ser774) Rabbit pAb

Catalog # AP96196

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q05193.2
Other Accession	Q05193.2
Predicted	Rat, Pig, Human, Mouse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthesised phosphopeptide derived from human Dynamin 1 around the phosphorylation site of Ser774
Epitope Specificity	RR(p-S)PT
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Cytoplasm, cytoskeleton. Note=Microtubule-associated.
SIMILARITY	Belongs to the dynamin family. Contains 1 GED domain. Contains 1 PH domain.
SUBUNIT	Interacts with CAV1 and SH3GLB1. Binds SH3GL1, SH3GL2 and SH3GL3 (By similarity). Interacts with PHOCN. Interacts with PACSIN1, PACSIN2 and PACSIN3 (By similarity). Interacts with SNX9. Interacts with MYO1E (via SH3 domain).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Dynamin I is a GTPase enzyme required for the retrieval of synaptic vesicles after exocytosis and functions in endocytosis by stimulating assembly of invaginating synaptic vesicles (1). Dynamin I is phosphorylated in nerve terminals exclusively in the cytosolic compartment and in vitro by protein kinase C (PKC) (2–5). The phosphorylation site in PKC-phosphorylated Dynamin I is a single site at Serine 795, which is located near a binding site for the SH3 domain of p85, the regulatory subunit of phosphatidylinositol 3-kinase (2–5). Dephosphorylation is required for synaptic vesicle retrieval, suggesting that phosphorylation affects the subcellular localization of Dynamin I (5). Mouse, rat and human Dynamin I are phosphorylated on serine residues, including Ser 778, by Cdk5, regulating PACSIN1 recruitment and enabling synaptic vesicle endocytosis.

Additional Information

Gene ID	1759
Other Names	DEE31; DEE31A; DEE31B; DNM; EIEE31; dynamin 1; DNM1 | Dynamin-1 (phospho-S774); p-Dynamin-1; phospho-Dynamin-1; p-DNM1; DNM1 | Dynamin-1 (phospho-Ser774)

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	phospho-Dynamin 1 (Ser774) Rabbit pAb
Function	Microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP. Most probably involved in vesicular trafficking processes. Involved in receptor-mediated endocytosis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.