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Phospho-Endophilin(Y80) Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3682a

Product Information

Application	DB, E
Primary Accession	Q9Y371
Other Accession	Q6AYE2, Q9JK48, Q32LM0
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15349
Calculated MW	40796

Additional Information

Gene ID	51100
Other Names	Endophilin-B1, Bax-interacting factor 1, Bif-1, SH3 domain-containing GRB2-like protein B1, SH3GLB1, KIAA0491
Target/Specificity	This Endophilin Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y80 of human Endophilin.
Dilution	DB~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Phospho-Endophilin(Y80) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SH3GLB1
Synonyms	KIAA0491
Function	May be required for normal outer mitochondrial membrane dynamics

	(PubMed:15452144). Required for coatomer-mediated retrograde transport in certain cells (By similarity). May recruit other proteins to membranes with high curvature. May promote membrane fusion (PubMed:11604418). Involved in activation of caspase-dependent apoptosis by promoting BAX/BAK1 activation (PubMed:16227588). Isoform 1 acts proapoptotic in fibroblasts (By similarity). Involved in caspase- independent apoptosis during nutrition starvation and involved in the regulation of autophagy. Activates lipid kinase activity of PIK3C3 during autophagy probably by associating with the PI3K complex II (PI3KC3-C2) (PubMed:17891140). Associated with PI3KC3-C2 during autophagy may regulate the trafficking of ATG9A from the Golgi complex to the peripheral cytoplasm for the formation of autophagosomes by inducing Golgi membrane tubulation and fragmentation (PubMed:21068542). Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123). Isoform 2 acts antiapoptotic in neuronal cells; involved in maintenance of mitochondrial morphology and promotes neuronal viability (By similarity).
Cellular Location	Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein. Mitochondrion outer membrane; Peripheral membrane protein. Cytoplasmic vesicle, autophagosome membrane. Midbody. Note=Association with the Golgi apparatus depends on the cell type (By similarity). Following starvation colocalizes with ATG5 and LC3 autophagy-related protein(s)on autophagosomal membranes (PubMed:17891140). {ECO:0000250, ECO:0000269|PubMed:17891140}
Tissue Location	Highly expressed in heart, skeletal muscle, kidney and placenta. Detected at lower levels in brain, colon, thymus, spleen, liver, small intestine, lung and peripheral blood leukocytes

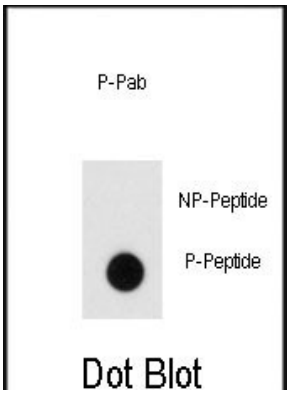
Background

Endophilin may be required for normal outer mitochondrial membrane dynamics. It is required for coatomer-mediated retrograde transport in certain cells. It may recruit other proteins to membranes with high curvature and may promote membrane fusion.

References

Maiuri,M.C., et.al., Cell Death Differ. 16 (1), 87-93 (2009)
Yamaguchi,H., et.al., J. Biol. Chem. 283 (27), 19112-19118 (2008)
Takahashi,Y., et.al, Nat. Cell Biol. 9 (10), 1142-1151 (2007)

Images



Dot blot analysis of anti-Phospho-Endophilin-pY80 Pab (Cat. #AP3682a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

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