

Phospho-Endophilin(Y80) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3682a**Specification**

Phospho-Endophilin(Y80) Antibody - Product Information

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

Phospho-Endophilin(Y80) Antibody - 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.

Phospho-Endophilin(Y80) Antibody - 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](#)}

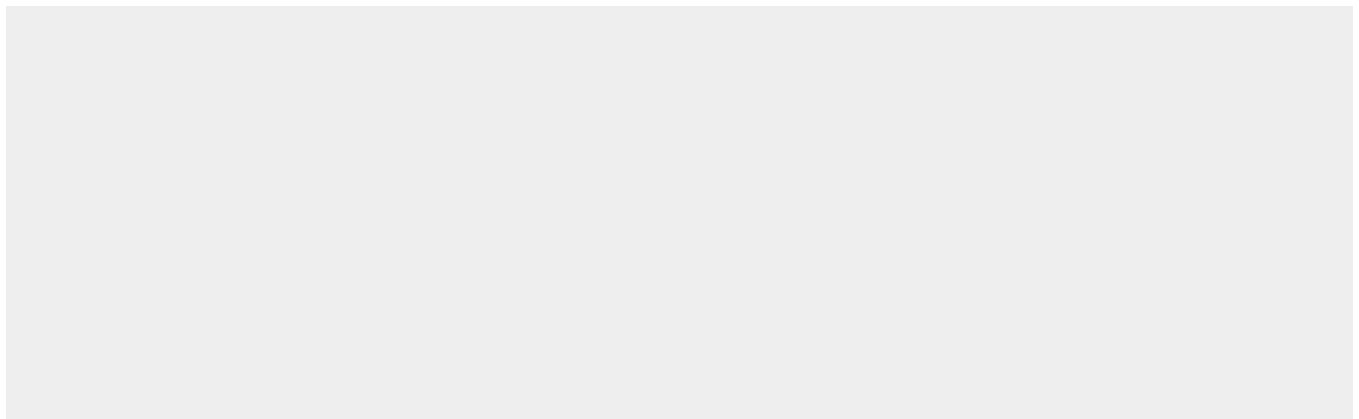
Tissue Location

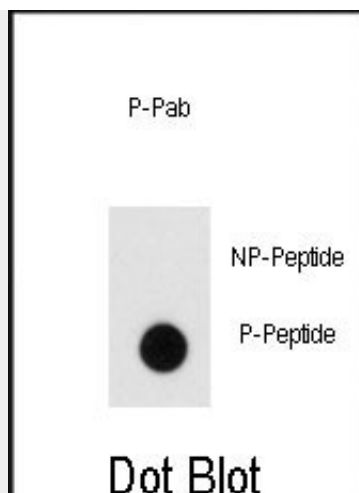
Highly expressed in heart, skeletal muscle, kidney and placenta. Detected at lower levels in brain, colon, thymus, spleen, liver, small intestine, lung and peripheral blood leukocytes

Phospho-Endophilin(Y80) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-Endophilin(Y80) Antibody - 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.

Phospho-Endophilin(Y80) Antibody - Background

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

Phospho-Endophilin(Y80) Antibody - 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)