

**Endophilin B1 Antibody (Y80) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8034a****Specification**

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**Endophilin B1 Antibody (Y80) Blocking Peptide - Product Information**Primary Accession [Q9Y371](#)**Endophilin B1 Antibody (Y80) Blocking Peptide - 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**

The synthetic peptide sequence used to generate the antibody [AP8034a](/products/AP8034a) was selected from the Y80 region of human Endophilin B1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Endophilin B1 Antibody (Y80) Blocking Peptide - Protein Information****Name** SH3GLB1**Synonyms** KIAA0491**Function**

May be required for normal outer mitochondrial membrane dynamics (PubMed: [15452144](http://www.uniprot.org/citations/15452144)). Required for coatamer-mediated retrograde transport in certain cells (By similarity). May recruit other proteins to membranes with high curvature. May promote membrane fusion (PubMed: [11604418](http://www.uniprot.org/citations/11604418)). Involved in activation of caspase-dependent apoptosis by promoting BAX/BAK1 activation (PubMed: [16227588](http://www.uniprot.org/citations/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:<a href="http://www.uniprot.org/citations/17891140" target="\_blank">17891140</a>). 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:<a href="http://www.uniprot.org/citations/21068542" target="\_blank">21068542</a>). Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3KC3-C2 (PubMed:<a href="http://www.uniprot.org/citations/20643123" target="\_blank">20643123</a>). 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

### **Endophilin B1 Antibody (Y80) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **Endophilin B1 Antibody (Y80) Blocking Peptide - Images**

#### **Endophilin B1 Antibody (Y80) Blocking Peptide - Background**

Endophilin B1 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.

#### **Endophilin B1 Antibody (Y80) Blocking Peptide - References**

Yamaguchi,H., J. Biol. Chem. 283 (27), 19112-19118 (2008) Lee,J.W., Pathology 38 (4), 312-315 (2006) Masuda,M., EMBO J. 25 (12), 2889-2897 (2006)