

SH3GLB1 / Bif / Endophilin B1 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS12185**Specification**

SH3GLB1 / Bif / Endophilin B1 Antibody - Product Information

Application	IHC
Primary Accession	O9Y371
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41kDa KDa

SH3GLB1 / Bif / Endophilin B1 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

The antibody detects 40 kD BIF-1 in samples from human, mouse, and rat origins. Jurkat cell lysate and rat kidney tissue lysates can be used as positive controls.

Reconstitution & Storage

Long term: -70°C; Short term: -20°C

Precautions

SH3GLB1 / Bif / Endophilin B1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SH3GLB1 / Bif / Endophilin B1 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

PI3K3C3 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

Volume

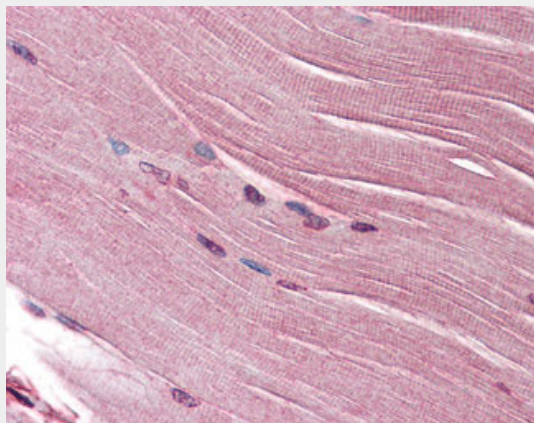
250 µl

SH3GLB1 / Bif / Endophilin B1 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](#)

SH3GLB1 / Bif / Endophilin B1 Antibody - Images



Anti-SH3GLB1 / Bif-1 antibody IHC of human skeletal muscle.

SH3GLB1 / Bif / Endophilin B1 Antibody - Background

May be required for normal outer mitochondrial membrane dynamics. Required for coatamer-mediated retrograde transport in certain cells. May recruit other proteins to membranes with high curvature. May promote membrane fusion.

SH3GLB1 / Bif / Endophilin B1 Antibody - References

Pierrat B.,et al.Genomics 71:222-234(2001).
Cuddeback S.M.,et al.J. Biol. Chem. 276:20559-20565(2001).
Modregger J.,et al.J. Biol. Chem. 278:4160-4167(2003).
Seki N.,et al.DNA Res. 4:345-349(1997).
Lai C.-H.,et al.Genome Res. 10:703-713(2000).