

BIF Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10537**Specification**

BIF Antibody - Product Information

Application	WB, IHC
Primary Accession	O9Y371
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	40796

BIF Antibody - Additional Information**Gene ID** 51100

Application & Usage	Western blotting (2-6 µg/ml). However, the optimal conditions should be determined individually. The antibody detects 40 kDa BIF-1 in samples from human, mouse, and rat origins. Jurkat cell lysate and rat kidney tissue lysates can be used as positive controls.
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Other Names

Bax-interacting factor 1 , Bif-1 , CGI-61 , Endophilin 3 , Endophilin B1 , KIAA0491 , SH3GLB1 , SH3p13

Target/Specificity

BIF

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.2 mg/ml) Protein A affinity purified rabbit anti-BIF polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

BIF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

BIF Antibody - Protein Information

Name SH3GLB1

Synonyms KIAA0491

Function

May be required for normal outer mitochondrial membrane dynamics (PubMed: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). 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

BIF 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](#)

BIF Antibody - Images**BIF Antibody - Background**

BIF-1 (Bax interacting factor-1) is a 365 amino acid protein that interacts with Bax protein and influences cell survival and death. BIF-1 contains a Src homology 3 (SH3) domain in the C-terminus. Overexpression of BIF-1 promotes Bax conformational change, caspase activation, and apoptotic cell death.