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Sh3glb1 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14334

Product Information

Application	WB
Primary Accession	Q9JK48
Other Accession	NM_019464, NP_062337
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Mouse, Rat, Rabbit, Pig, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40855

Additional Information

Gene ID	54673
Alias Symbol	AA409932, AI314629, AU015566, Bif-1, KIAA0491, mKIAA0491
Other Names	Endophilin-B1, SH3 domain-containing GRB2-like protein B1, Sh3glb1, Kiaa0491
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Sh3glb1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Sh3glb1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

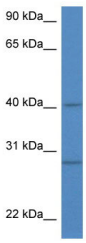
Name	Sh3glb1
Synonyms	Kiaa0491
Function	May be required for normal outer mitochondrial membrane dynamics. Required for coatomer-mediated retrograde transport in certain cells (PubMed:17086176). May recruit other proteins to membranes with high curvature. May promote membrane fusion (By similarity). Involved in activation of caspase-dependent apoptosis by promoting BAX/BAK1 activation (PubMed:16227588). Isoform 1 acts proapoptotic in fibroblasts (PubMed:24523556). 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). 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. Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3KC3-C2 (By similarity). Isoform 2 acts antiapoptotic in neuronal cells; involved in maintenance of mitochondrial morphology and promotes neuronal viability (PubMed:24523556).
Cellular Location	Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:Q6AYE2}. Mitochondrion outer membrane {ECO:0000250|UniProtKB:Q9Y371}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9Y371}. Cytoplasmic vesicle, autophagosome membrane {ECO:0000250|UniProtKB:Q9Y371}. Midbody {ECO:0000250|UniProtKB:Q9Y371}. Note=Association with the Golgi apparatus depends on the cell type. Following starvation colocalizes with ATG5 and LC3 autophagy-related protein(s)on autophagosomal membranes. {ECO:0000250|UniProtKB:Q9Y371}
Tissue Location	Isoform 1 is widely expressed. Isoform 2 is brain- specific. Isoform 3 is predominantly expressed in testis, but it is also detected in liver and, at much lower levels, in skin, stomach and ovary.

References

Modregger J.,et al.J. Biol. Chem. 278:4160-4167(2003).
Okazaki N.,et al.DNA Res. 11:205-218(2004).
Carninci P.,et al.Science 309:1559-1563(2005).
Yang J.S.,et al.Nat. Cell Biol. 8:1376-1382(2006).

Images



WB Suggested Anti-Sh3glb1 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Thymus

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