

**Sh3glb1 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI14334****Specification**

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**Sh3glb1 antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">O9JK48</a>
Other Accession	<a href="#">NM_019464</a> , <a href="#">NP_062337</a>
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Mouse, Rat, Rabbit, Pig, Chicken, Horse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40kDa kDa

**Sh3glb1 antibody - N-terminal region - 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.

**Sh3glb1 antibody - N-terminal region - Protein Information****Name** Sh3glb1**Synonyms** Kiaa0491**Function**

May be required for normal outer mitochondrial membrane dynamics. Required for coatamer-mediated retrograde transport in certain cells (PubMed:&lt;a href="http://www.uniprot.org/citations/17086176" target="\_blank"&gt;17086176&lt;/a&gt;). 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:<a href="http://www.uniprot.org/citations/16227588" target="\_blank">16227588</a>). Isoform 1 acts proapoptotic in fibroblasts (PubMed:<a href="http://www.uniprot.org/citations/24523556" target="\_blank">24523556</a>). 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:<a href="http://www.uniprot.org/citations/24523556" target="\_blank">24523556</a>).

### 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

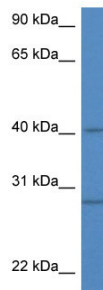
Isoform 1 is widely expressed. Isoform 2 is brain- specific. Isoform 3 is predominantly expressed in testis, but it is also detected in liver and, at much lower levels, in skin, stomach and ovary.

## Sh3glb1 antibody - N-terminal region - 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 antibody - N-terminal region - Images



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

**Sh3glb1 antibody - N-terminal region - 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).