



## Rabbit Anti-GARNL1 antibody

SL13286R

|                               |  |
|-------------------------------|--|
| <b>Product Name:</b>          | GARNL1   |
| <b>Chinese Name:</b>          | Tuberin样蛋白1抗体  |
| <b>Alias:</b>                 | DKFZp566D133; DKFZp667F074; GAP related interacting partner to E12; GARN L1; GARNL 1; GRIPE; GTPase activating Rap/RanGAP domain like 1; KIAA0884; Tuberin like protein 1; TULIP 1. TULIP1; RGPA1 HUMAN.   |
| <b>Organism Species:</b>      | Rabbit   |
| <b>Clonality:</b>             | Polyclonal   |
| <b>React Species:</b>         | Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep,   |
| <b>Applications:</b>          | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.   |
| <b>Molecular weight:</b>      | 230 kDa  |
| <b>Cellular localization:</b> | The nucleuscytoplasmic   |
| <b>Form:</b>                  | Lyophilized or Liquid  |
| <b>Concentration:</b>         | 1mg/ml   |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human GARNL1:631-730/2036  |
| <b>Lsotype:</b>               | IgG  |
| <b>Purification:</b>          | affinity purified by Protein A   |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.   |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.  |
| <b>PubMed:</b>                | <a href="#">PubMed</a>   |
| <b>Product Detail:</b>        | GARNL1 is expressed during embryogenesis with E12. During development, GARNL1 expression decreases, persisting at high levels only in neurons of the adult brain. GARNL1 localizes to the cytoplasm where it may play a role regulating GTP hydrolysis of proteins such as Ran and Rap. GARNL1 is imported to the nucleus via dimerization with E12. GARNL1 interacts with the HLH region of E12 and may function to |

negatively regulate the transcription of E12-dependent downstream target genes. This suggests that at least a portion of the function of GARNL1 is dependent upon its association with E12. GARNL1 may also associate with other HLH proteins and influence a variety of HLH signaling cascades. In adult brain, GARNL1 activity does not involve E12 and therefore it may serve a different function in developed neural tissue.

**Function:**

GTPase activating Rap/RanGAP domain-like 1 (GARNL1) is an interacting partner of the transcription factor TCF3/isoform E12, mainly in the developing embryonic forebrain. It may be an important transcriptional regulator of downstream target genes under the control of TCF3/E12, by disrupting HLH dimer formation of TCF3/E12 with other proteins and may be involved in neuronal differentiation.

**Subunit:**

Component of the heterodimeric RalGAP1 complex with RALGAPB. Heterodimerization is required for activity. Interacts with the HLH region of TCF3/isoform E12 (By similarity).

**Subcellular Location:**

Cytoplasmic and Nuclear. Translocated to the nucleus when associated with TCF3/E12.

**Tissue Specificity:**

Widely expressed.

**Similarity:**

Contains 1 Rap-GAP domain.

**SWISS:**

Q6GYQ0

**Gene ID:**

253959

**Database links:**

[Entrez Gene: 253959](#)Human

[Entrez Gene: 56784](#)Mouse

[Entrez Gene: 56785](#)Rat

[Omim: 608884](#)Human

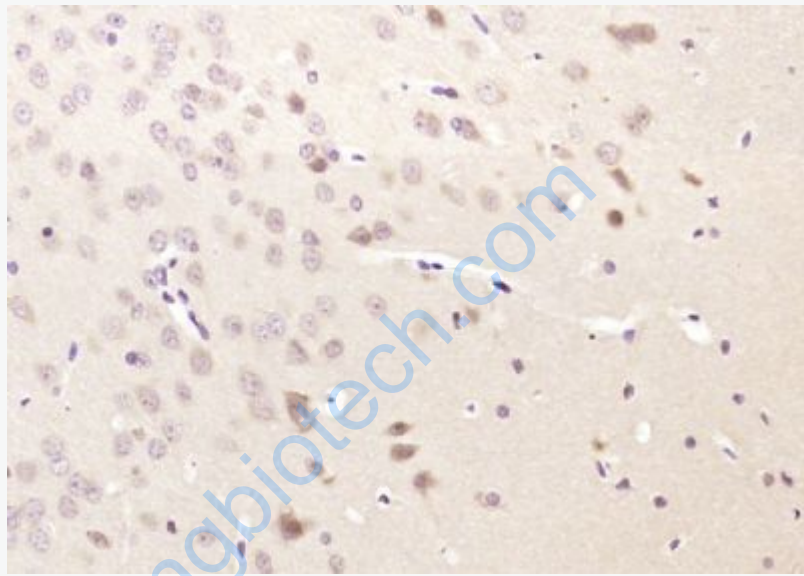
[SwissProt: Q6GYQ0](#)Human

[SwissProt: Q6GYP7](#)Mouse

[SwissProt: O55007](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GARNL1) Polyclonal Antibody, Unconjugated (SL13286R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.