10320 Camino Santa Fe, Suite G
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GARNL1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55122

Specification

GARNL1 Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q6GYQ0
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**230 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human GARNL1**
Epitope Specificity	**631-730/2036**
Isotype	**IgG**
Purity	
affinity purified by Protein A	
Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Cytoplasmic and Nuclear. Translocated to the nucleus when associated with TCF3/E12.**
SIMILARITY	**Contains 1 Rap-GAP domain.**
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).**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
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.

GARNL1 Polyclonal Antibody - Additional Information

Gene ID 253959

Other Names
Ral GTPase-activating protein subunit alpha-1, GAP-related-interacting partner to E12, GRIPE, GTPase-activating Rap/Ran-GAP domain-like 1, Tuberin-like protein 1, p240, RALGAPA1, GARNL1, KIAA0884, TULIP1

Target/Specificity
Widely expressed.

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. 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 ℃.

GARNL1 Polyclonal Antibody - Protein Information

Name RALGAPA1

Synonyms GARNL1, KIAA0884, TULIP1

Function
Catalytic subunit of the heterodimeric RalGAP1 complex which acts as a GTPase activator for the Ras-like small GTPases RALA and RALB.

Cellular Location
Cytoplasm. Nucleus. Note=Translocated to the nucleus, when associated with TCF3/E12

Tissue Location
Widely expressed..

GARNL1 Polyclonal 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 Cytomety
- Cell Culture

GARNL1 Polyclonal Antibody - Images

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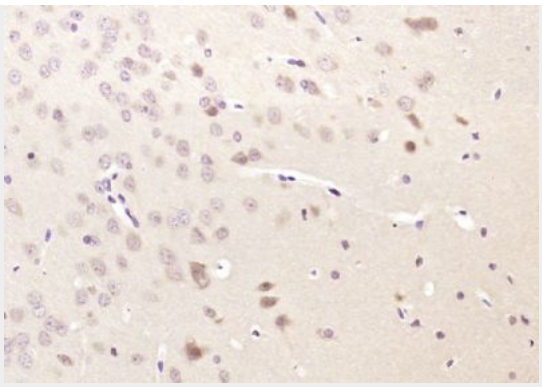

Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GARNL1) Polyclonal Antibody, Unconjugated (bs-13286R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.