

RICS Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9480b**Specification**

RICS Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession
Other Accession[A7KAX9](#)
[NP_055530](#)**RICS Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 9743**Other Names**

Rho GTPase-activating protein 32, Brain-specific Rho GTPase-activating protein, GAB-associated Cdc42/Rac GTPase-activating protein, GC-GAP, GTPase regulator interacting with TrkA, Rho-type GTPase-activating protein 32, Rho/Cdc42/Rac GTPase-activating protein RICS, RhoGAP involved in the beta-catenin-N-cadherin and NMDA receptor signaling, p200RhoGAP, p250GAP, ARHGAP32, GRIT, KIAA0712, RICS

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RICS Antibody (C-term) Blocking Peptide - Protein Information**Name** ARHGAP32**Synonyms** GRIT, KIAA0712, RICS**Function**

GTPase-activating protein (GAP) promoting GTP hydrolysis on RHOA, CDC42 and RAC1 small GTPases. May be involved in the differentiation of neuronal cells during the formation of neurite extensions. Involved in NMDA receptor activity-dependent actin reorganization in dendritic spines. May mediate cross-talks between Ras- and Rho-regulated signaling pathways in cell growth regulation. Isoform 2 has higher GAP activity (By similarity).

Cellular Location

Postsynaptic density {ECO:0000250|UniProtKB:Q811P8}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q811P8}. Cytoplasm, cell cortex. Endosome membrane. Golgi apparatus membrane. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q811P8}. Membrane Note=Association to membrane via PX domain (PubMed:17663722) Associated with cortical actin

in undifferentiated neuroblastoma cells, but localized to dendritic spine and postsynaptic density after differentiation (By similarity). Colocalizes with EGFR at the cell membrane upon EGF treatment (PubMed:12446789). Colocalizes with GAB2 at the cell membrane (PubMed:12819203). {ECO:0000250|UniProtKB:Q811P8, ECO:0000269|PubMed:12446789, ECO:0000269|PubMed:12819203, ECO:0000269|PubMed:17663722}

Tissue Location

Isoform 1 and isoform 2 are highly expressed in brain and testis. Isoform 1 is also expressed in other tissues such as lung, liver and spleen.

RICS Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

RICS Antibody (C-term) Blocking Peptide - Images

RICS Antibody (C-term) Blocking Peptide - Background

RICS is a neuron-associated GTPase-activating protein that may regulate dendritic spine morphology and strength by modulating Rho GTPase (see RHOA; MIM 165390) activity (Okabe et al., 2003 [PubMed 12531901]).

RICS Antibody (C-term) Blocking Peptide - References

??ayman, G.A., et al. Proc. Natl. Acad. Sci. U.S.A. 105(26):9093-9098(2008)??akamura, T., et al. Genes Dev. 22(9):1244-1256(2008)??ayashi, T., et al. Genes Cells 12(8):929-939(2007)??im, J., et al. Cell 125(4):801-814(2006)??akazawa, T., et al. Mol. Biol. Cell 14(7):2921-2934(2003)