

**RIC8A Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17108c****Specification**

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**RIC8A Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q9NPQ8](#)**RIC8A Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 60626**Other Names**

Synembryn-A, Protein Ric-8A, RIC8A

**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.

**RIC8A Antibody (Center) Blocking Peptide - Protein Information****Name** RIC8A {ECO:0000303|PubMed:25074811, ECO:0000312|HGNC:HGNC:29550}**Function**

Chaperone that specifically binds and folds nascent G alpha proteins prior to G protein heterotrimer formation, promoting their stability and activity: folds GNAI1, GNAO1, GNA13 and GNAQ (By similarity). Does not fold G(s) G-alpha proteins GNAS nor GNAL (By similarity). Also acts as a guanine nucleotide exchange factor (GEF) for G alpha proteins by stimulating exchange of bound GDP for free GTP (By similarity). Involved in regulation of microtubule pulling forces during mitotic movement of chromosomes by stimulating G(i)-alpha protein (GNAI1), possibly leading to release G(i)-alpha-GTP and NuMA proteins from the NuMA-GPSM2-G(i)-alpha-GDP complex (By similarity). Also acts as an activator for G(q)-alpha (GNAQ) protein by enhancing the G(q)-coupled receptor-mediated ERK activation (PubMed:<a href="http://www.uniprot.org/citations/16629901" target="\_blank">16629901</a>).

**Cellular Location**

Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q80ZG1}. Cytoplasm {ECO:0000250|UniProtKB:Q80ZG1}

**RIC8A Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **RIC8A Antibody (Center) Blocking Peptide - Images**

#### **RIC8A Antibody (Center) Blocking Peptide - Background**

Guanine nucleotide exchange factor (GEF), which can activate some, but not all, G-alpha proteins. Able to activate GNAI1, GNAO1 and GNAQ, but not GNAS by exchanging bound GDP for free GTP. Involved in regulation of microtubule pulling forces during mitotic movement of chromosomes by stimulating G(i)-alpha protein, possibly leading to release G(i)-alpha-GTP and NuMA proteins from the NuMA-GPSM2-G(i)-alpha-GDP complex (By similarity). Also acts as an activator for G(q)-alpha (GNAQ) protein by enhancing the G(q)-coupled receptor-mediated ERK activation.

#### **RIC8A Antibody (Center) Blocking Peptide - References**

Woodard, G.E., et al. Mol. Cell. Biol. 30(14):3519-3530(2010)Matsuoka, S., et al. Science 316(5828):1160-1166(2007)Lim, J., et al. Cell 125(4):801-814(2006)Nishimura, A., et al. Genes Cells 11(5):487-498(2006)Tall, G.G., et al. J. Biol. Chem. 278(10):8356-8362(2003)