

Goat Anti-RIC8A / Synembryn Antibody
Peptide-affinity purified goat antibody
Catalog # AF1929a**Specification**

Goat Anti-RIC8A / Synembryn Antibody - Product Information

Application	WB
Primary Accession	Q9NPQ8
Other Accession	NP_068751 , 60626 , 101489 (mouse)
Reactivity	Human
Predicted	Mouse, Rat, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	59710

Goat Anti-RIC8A / Synembryn Antibody - Additional Information**Gene ID** 60626**Other Names**

Synembryn-A, Protein Ric-8A, RIC8A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-RIC8A / Synembryn Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-RIC8A / Synembryn Antibody - Protein Information**Name** RIC8A**Function**

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.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q80ZG1}. Cell membrane

{ECO:0000250|UniProtKB:Q80ZG1}. Note=Colocalizes with RGS14 in CA2 hippocampal neurons. Colocalizes with GNAI1 and RGS14 at the plasma membrane (By similarity).

Goat Anti-RIC8A / Synembryn 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 Cytometry](#)
- [Cell Culture](#)

Goat Anti-RIC8A / Synembryn Antibody - Images

AF1929a staining (1 µg/ml) of human brain lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-RIC8A / Synembryn Antibody - References

Ric-8A and Gi alpha recruit LGN, NuMA, and dynein to the cell cortex to help orient the mitotic spindle. Woodard GE, et al. Mol Cell Biol, 2010 Jul. PMID 20479129.

A protein-protein interaction network for human inherited ataxias and disorders of Purkinje cell degeneration. Lim J, et al. Cell, 2006 May 19. PMID 16713569.

Ric-8A potentiates Gq-mediated signal transduction by acting downstream of G protein-coupled receptor in intact cells. Nishimura A, et al. Genes Cells, 2006 May. PMID 16629901.

The LIFEdb database in 2006. Mehrle A, et al. Nucleic Acids Res, 2006 Jan 1. PMID 16381901.

Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514.