

**Goat Anti-RAPSN / Rapsyn Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1912a****Specification**

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**Goat Anti-RAPSN / Rapsyn Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q13702</a>
Other Accession	<a href="#">NP_116034</a> , <a href="#">5913</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	46328

**Goat Anti-RAPSN / Rapsyn Antibody - Additional Information****Gene ID** 5913**Other Names**

43 kDa receptor-associated protein of the synapse, RAPsyn, 43 kDa postsynaptic protein, Acetylcholine receptor-associated 43 kDa protein, RING finger protein 205, RAPSN, RNF205

**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-RAPSN / Rapsyn Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-RAPSN / Rapsyn Antibody - Protein Information****Name** RAPSN**Synonyms** RNF205**Function**

Postsynaptic protein required for clustering of nicotinic acetylcholine receptors (nAChRs) at the neuromuscular junction. It may link the receptor to the underlying postsynaptic cytoskeleton, possibly by direct association with actin or spectrin.

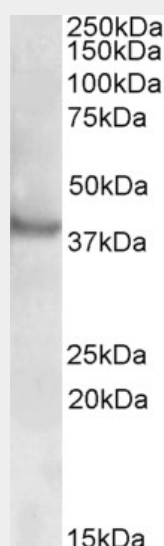
**Cellular Location**

Cell membrane; Peripheral membrane protein; Cytoplasmic side. Postsynaptic cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton. Note=Cytoplasmic surface of postsynaptic membranes

**Goat Anti-RAPSN / Rapsyn 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-RAPSN / Rapsyn Antibody - Images**

AF1912a (0.5 µg/ml) staining of Human Skeletal Muscle lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**Goat Anti-RAPSN / Rapsyn Antibody - Background**

This protein belongs to a family of proteins that are receptor associated proteins of the synapse. It contains a conserved cAMP-dependent protein kinase phosphorylation site. It is believed to play some role in anchoring or stabilizing the nicotinic acetylcholine receptor at synaptic sites. It may link the receptor to the underlying postsynaptic cytoskeleton, possibly by direct association with actin or spectrin. Two splice variants have been identified for this gene.

**Goat Anti-RAPSN / Rapsyn Antibody - References**

Myasthenic syndrome due to defects in rapsyn: Clinical and molecular findings in 39 patients. Milone M, et al. Neurology, 2009 Jul 21. PMID 19620612.  
Muscle-like nicotinic receptor accessory molecules in sensory hair cells of the inner ear. Osman AA, et al. Mol Cell Neurosci, 2008 Jun. PMID 18420419.

Mutation analysis of CHRNA1, CHRNA1, CHRNB1, CHRND, and RAPSN genes in multiple pterygium syndrome/fetal akinesia patients. Vogt J, et al. Am J Hum Genet, 2008 Jan. PMID 18179903.

Impaired receptor clustering in congenital myasthenic syndrome with novel RAPSN mutations. Müller JS, et al. Neurology, 2006 Oct 10. PMID 16931511.

Src-family kinases stabilize the neuromuscular synapse in vivo via protein interactions, phosphorylation, and cytoskeletal linkage of acetylcholine receptors. Sadasivam G, et al. J Neurosci, 2005 Nov 9. PMID 16280586.