

## Product datasheet

# Anti-Rapsyn antibody [1234] ab11423

### 4 References

#### Overview

<b>Product name</b>	Anti-Rapsyn antibody [1234]
<b>Description</b>	Mouse monoclonal [1234] to Rapsyn
<b>Tested applications</b>	<b>Suitable for:</b> IP, ICC, IHC-Fr, WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Chicken, Human, Xenopus laevis, Fish, Amphibian, Xenopus tropicalis
<b>Immunogen</b>	Other Immunogen Type corresponding to Rapsyn. Whole purified rapsyn from Torpedo californica electric organ postsynaptic membrane.
<b>Positive control</b>	Torpedo californica electrocyte cell extracts.

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituents: 99% PBS, 0.1% BSA
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	1234
<b>Isotype</b>	IgG1

#### Applications

Our [Abpromise guarantee](#) covers the use of **ab11423** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
ICC		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.

WB	Use a concentration of 0.5 µg/ml. Detects a band of approximately 48 kDa (predicted molecular weight: 46 kDa). Detects a band of approximately 48 kDa, representing rapsyn from Torpedo californica electrocyte cell extracts.
ICC/IF	Use a concentration of 2 µg/ml.

## Target

### Function

Thought 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.

### Involvement in disease

Defects in RAPSN are a cause of congenital myasthenic syndrome with acetylcholine receptor deficiency (ACHRDCMS) [MIM:608931]. ACHRDCMS is a post-synaptic congenital myasthenic syndrome. Congenital myasthenic syndromes (CMS) are inherited disorders of neuromuscular transmission that stem from mutations in presynaptic, synaptic, or postsynaptic proteins. Postsynaptic disorders result from mutations in proteins forming the subunits of the muscle acetylcholine receptor (AChR). The kinetic abnormalities of AChR result in either prolonged ion channel activations that underlie 'slow-channel myasthenic syndromes' (SCCMS) or abbreviated channel activations that underlie the abnormally rapid decay of endplate currents in 'fast-channel syndromes' (FCCMS). ACHRDCMS is the third disorder associated with postsynaptic CMS which could result from mutations in the proteins forming the muscle AChR. Mutations underlying AChR deficiency cause a 'loss of function' and show recessive inheritance.

Defects in RAPSN are the cause of fetal akinesia deformation sequence (FADS) [MIM:208150]; also known as Pena-Shokeir syndrome type 1 or fetal akinesia sequence or arthrogyrosis multiplex congenita with pulmonary hypoplasia. FADS is a rare condition characterized by decreased intrauterine fetal movement, congenital limb contractures, pulmonary hypoplasia, polyhydramnios and craniofacial abnormalities.

### Sequence similarities

Belongs to the RAPsyn family.  
Contains 1 RING-type zinc finger.  
Contains 7 TPR repeats.

### Domain

A cysteine-rich region homologous to part of the regulatory domain of protein kinase C may be important in interactions of this protein with the lipid bilayer.

### Cellular localization

Cell membrane. Cell junction > synapse > postsynaptic cell membrane. Cytoplasm > cytoskeleton. Cytoplasmic surface of postsynaptic membranes.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors