



Rapsyn Rabbit Polyclonal Antibody

Catalog #: EAB14524

Host/Isotype	Clonality	Applications	MW (kDa)	Reactivity
Rabbit IgG	Polyclonal	WB, IHC-P, ELISA	45	Human, Mouse, Rat

Applications Dilutions

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

WB (Western Blotting)	1:500-2000
IHC-P (Immunohistochemistry-Paraffin)	1:50-300
ELISA (Enzyme-linked Immunosorbent Assay)	1:5000-20000

Product Information

Conjugate	Unconjugate
Specificity	Rapsyn Rabbit Polyclonal Antibody detects endogenous levels of Rapsyn protein.
Purification	Affinity purification
Concentration	1mg/ml
Format	Liquid
Formulation	In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol.
Shipping	Gel Pack
Storage	Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks.
UniProt ID	Q13702
Entrez-Gene ID	5913

Product Description

Rapsyn also known as RAPSN is a member of a family of proteins that are receptor associated proteins of the synapse. Rapsyn plays a crucial role in neuromuscular transmission. Rapsyn, or receptor-associated protein of the synapse, is primarily expressed in the postsynaptic membrane of skeletal muscle, where rapsyn is essential for the clustering of nicotinic acetylcholine receptors (nAChR). Rapsyn's ability to self-associate through tetra-tricopeptide repeats facilitates interaction with the large intracellular domain of the nAChR α subunit, which is vital for proper localization and function of these receptors at the neuromuscular junction. Rapsyn not only modifies AChR trafficking within the cell but is also critical for agrin-induced AChR clustering, a process essential for functional synapse formation.

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