

## Instruction manual FOR RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

RAPSN, 1-412aa, Mouse, His tag, E.coli

Cat.NO.: TP03678

3th Edition

Synonyms:43 kDa receptor-associated protein of the synapse, 43kDa, Nraps, Raps, rapsyn

**Description:**43 kDa receptor-associated protein of the synapse, also known as RAPSN, is expressed in the postsynaptic membrane of skeletal muscle. RAPSN is required for the clustering of nicotinic acetylcholine receptors (nAChR). It self-associates through at least two of its seven tetra-tricopeptide repeats (TPRs). RAPSN interacts with the large intracellular domain of the nAChR a subunit through the hydrophobic surface of the coiled-coil domain. This protein modifies trafficking of AChR within the cell. Overexpression inhibits agrin-induced AChR clustering pathway. Recombinant human RAPSN protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea

Molecular Weight: 48.8 kDa (435aa)

## Sequences:

MGSSHHHHHHSSGLVPRGSHMGSMGQDQTKQQIEKGLQLYQSNQTEKALQVWMKVLEKGSDLVGRFRVLGCLV TAHSEMGRYKEMLKFAVVQIDTARGLEDADFLLESYLNLARSNEKLCEFHKTISYCKTCLGLPGTRAGAQLGGQVS LSMGNAFLGLSLFQKALESFEKALRYAHNNDDTMLECRVCCSLGSFYAQVKDYEKALFFPCKAAELVNDYGKGWS LKYRAMSQYHMAVAYRLLGHLGSAMECCEESMKIALQHGDRPLQALCLLCFADIHRSRGDLETAFPRYDSAMSIMT EIGNRLGQVHVLLGVAKCWMARKVQDKALDAIEKAQDLAEEVGNKLSQLKLHCLSESIYRSKGLQRELRTHVVRFH ECVEETELYCGLCGESIGERNSRLQALPCSHIFHLRCLQNNGTRSCPNCRRSSMKPGFV

Purity:> 95% by HPLC

Concentration: 0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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