SYN2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SYN2, Polyclonal Antibody
Full Product Name	SYN2 Conjugated Antibody
Product Gene Name	anti-SYN2 antibody
Product Synonym Names	SYNII; SYNIIa; SYNIIb
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total SYN2 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	37.8kDa (331aa) 40-57KDa (SDS-PAGE under reducing conditions.)
OMIM	600755
3D Structure	ModBase 3D Structure for Q92777
Immunogen	Synthetic peptide corresponding to a region derived from internal residues of human synapsin II
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-SYN2 antibody	Most Applications
Application Notes for anti-SYN2 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-SYN2 antibody	This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. This member of the synapsin family encodes a neuron-specific phosphoprotein that selectively binds to small synaptic vesicles in the presynaptic nerve terminal. The TIMP4 gene is located within an intron of this gene and is transcribed in the opposite direction. Mutations in this gene may be associated with abnormal presynaptic function and schizophrenia. Alternative splicing of this gene results in two transcripts.
Other Notes	Small volumes of anti-SYN2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for SYN2 purchase	MBS9448091 is an antibody targeting SYN2. Also known as SYN2 Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYN2. It may not necessarily be applicable to this product.

NCBI GI #	28559021
NCBI GeneID	3568
NCBI Accession #	NP_000555
UniProt Primary Accession #	Q92777
UniProt Secondary Accession #	Q14633; Q15469; Q6ISX9; B3IU77; B4E2G0
UniProt Related Accession #	Q01344
GenBank Nucleotide #	NM_000564.4
NCBI Official Full Name	interleukin-5 receptor subunit alpha isoform 1
NCBI Official Synonym Full Names	interleukin 5 receptor subunit alpha
NCBI Official Symbol	IL5RA
NCBI Official Synonym Symbols	IL5R; CD125; CDw125; HSIL5R3
UniProt Protein Name	Synapsin-2
UniProt Synonym Protein Names	Synapsin II
Protein Family	Sister chromatid cohesion 1 protein
UniProt Gene Name	SYN2
UniProt Entry Name	SYN2_HUMAN
NCBI Protein Information	interleukin-5 receptor subunit alpha
NCBI Summary for SYN2	The protein encoded by this gene is an interleukin 5 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL5 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL5. This protein has been found to interact with syndecan binding protein (syntenin), which is required for IL5 mediated activation of the transcription factor SOX4. Several alternatively spliced transcript variants encoding four distinct isoforms have been reported. [provided by RefSeq, Jul 2011]
Research Articles on SYN2	**1.** Interleukin-5Ralpha-targeted treatments offer promises to patients with eosinophilic respiratory disorders; review
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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