

Product datasheet for TA328891

Syt1 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide MVSASHPEALAAPVTTVAT(C), corresponding to amino acid residues 1-19 of rat synaptotagmin I. Intravesicular, N-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 5% sucrose, 0.025% NaN3.
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	synaptotagmin 1
Database Link:	<u>NP_001028852</u> <u>Entrez Gene 20979 MouseEntrez Gene 25716 Rat</u> <u>P21707</u>



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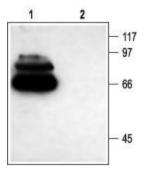
GRIGENE Syt1 Rabbit Polyclonal Antibody – TA328891

Background: Synaptotagmin 1 is a member of the Ca2+-binding synaptotagmin family of proteins that includes 16 members in vertebrates and is involved in regulated exocytosis and trafficking. Synaptotagmins are type I membrane proteins located in intracellular vesicles and consist of a short N-terminal domain located in the vesicle lumen, a transmembrane domain and a cytosolic domain containing two Ca2+ binding domains. Synaptotagmins are usually localized to distinct secretory vesicles and control their Ca2+-dependent fusion. Synaptotagmin I is predominantly expressed in neuronal cells and is an abundant constituent of synaptic vesicles. Synaptotagmin I has a relatively low Ca2+ affinity and is able to bind Ca2+ mostly in the vicinity of Ca2+ channels pores. Indeed, Synaptotagmin I has been demonstrated to directly interact with selected Ca2+ channels. Synaptotagmin I also binds to the t-SNARE protein Syntaxin 1 in a Ca2+-dependent manner thus forming the prototypical Ca2+dependent fast synaptic vesicle exocytosis protein complex that also includes SNAP-25 and VAMP.

Synonyms:

DKFZp781D2042; P65; SVP65; SYT; SytI

Product images:



Western blot analysis of rat brain membranes: 1. Anti-Synaptotagmin-I antibody, (1:200). 2. Anti-Synaptotagmin-I antibody, preincubated with the control peptide antigen.

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