

Recombinant Human SYT3

Catalog No: #GP10791



Package Size: #GP10791-1 100ug

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Description

Product Name	Recombinant Human SYT3
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 76-200 amino acids of human synaptotagmin III
Target Name	synaptotagmin III
Other Names	SytIII
Accession No.	Swissprot:Q9BQG1 Gene Accession:BC031067
Uniprot	Q9BQG1
GeneID	84258;
Storage	-20~-80°C, pH 7.6 PBS

Background

Synaptotagmins are a large gene family of synaptic vesicle type III integral membrane proteins that function as regulators of both exocytosis and endocytosis and are involved in neurotransmitter secretion from small secretory vesicles. Calcium binds to Synaptotagmin I which triggers neurotransmitter release at the synapse. Synaptotagmin II is phosphorylated by WNK1 in a process that regulates calcium-dependent interactions. Synaptotagmin III is involved in calcium-dependent exocytosis of secretory vesicles in endocrine cells and neurons. Synaptotagmin IV is expressed in neuronal tissues, and has the highest mRNA levels in the hippocampus. The proximity of the Synaptotagmin IV gene to markers of several psychiatric disorders suggest an involvement of synaptotagmin IV in human disease. Synaptotagmin V is a dense-core vesicle-specific protein that regulates a specific type of calcium-regulated secretion. Synaptotagmin VI interacts with adaptor protein-2 in a calcium-independent manner. Synaptotagmin VII is widely expressed in non-neuronal tissues.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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