

# Recombinant Human SYT4

Catalog No: #GP10792



Package Size: #GP10792-1 100ug

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	Recombinant Human SYT4
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 38-200 amino acids of human synaptotagmin IV
Target Name	synaptotagmin IV
Other Names	HsT1192
Accession No.	Swissprot:Q9H2B2Gene Accession:BC036538
Uniprot	Q9H2B2
GeneID	6860;
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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