

Product datasheet for **TA349443S**

Synaptotagmin 4 (SYT4) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Hela and Jurkat cells IHC: 25-100 Positive control: Human colon cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human SYT4
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	48 kDa
Gene Name:	synaptotagmin 4
Database Link:	NP_065834 Entrez Gene 6860 Human Q9H2B2



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Background:

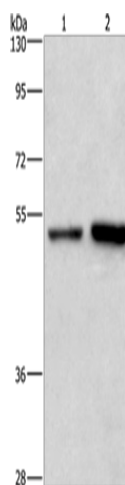
Synaptotagmins are a large gene family of synaptic vesicle type III integral membrane proteins that function as regulators of both exocytosis and endocytosis and are involved in neurotransmitter secretion from small secretory vesicles. Calcium binds to Synaptotagmin I which triggers neurotransmitter 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.

Synonyms:

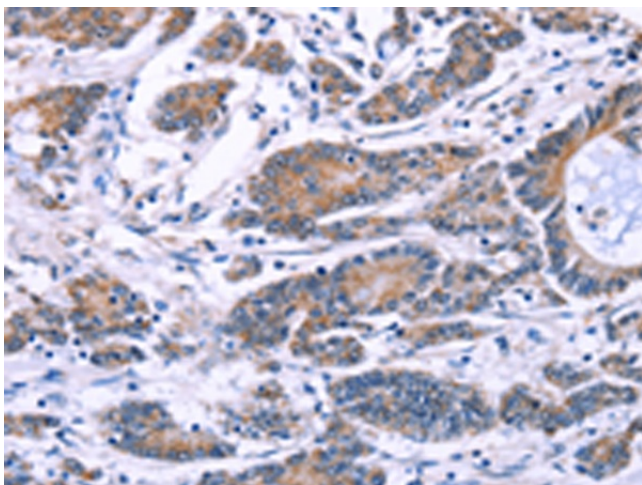
HsT1192

Protein Families:

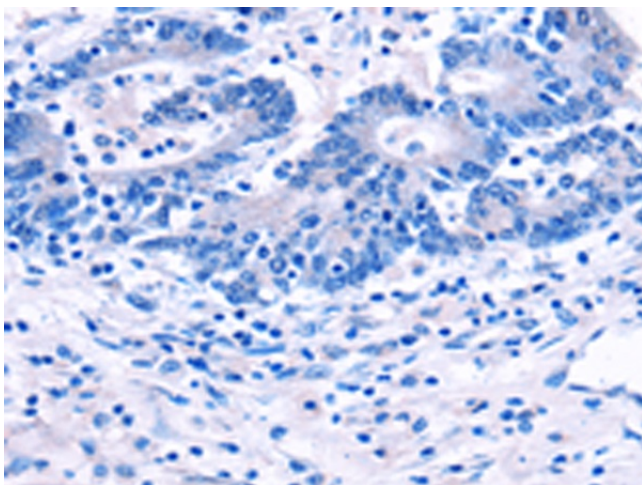
Secreted Protein, Transmembrane

Product images:

Gel: 8%SDS-PAGE
Lysate: 40 µg
Lane 1-2: HeLa cells
Jurkat cells
Primary antibody: [TA349443] (SYT4 Antibody) at dilution 1/700
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 20 seconds



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using [TA349443] (SYT4 Antibody) at dilution 1/60 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using [TA349443] (SYT4 Antibody) at dilution 1/60, treated with fusion protein. (Original magnification: $\times 200$)