

## SYT4 RABBIT PAB

**Cat.#:** S216807

**Product Name:** Anti-SYT4 Rabbit Polyclonal Antibody

**Synonyms:** HsT1192

**UNIPROT ID:** Q9H2B2 (Gene Accession - BC036538 )

**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.

**Immunogen:** Fusion protein of human SYT4

**Applications:** ELISA, WB, IHC

**Recommended Dilutions:** IHC: 25-100;WB: 500-2000;ELISA: 2000-5000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

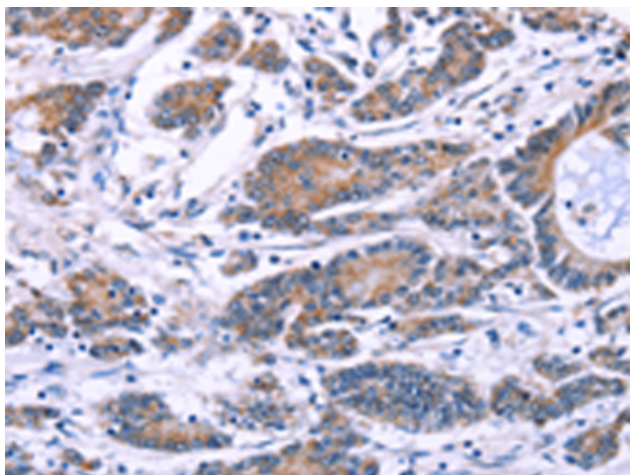
**Purification:** Antigen affinity purification

**Species Reactivity:** Human, Mouse, Rat

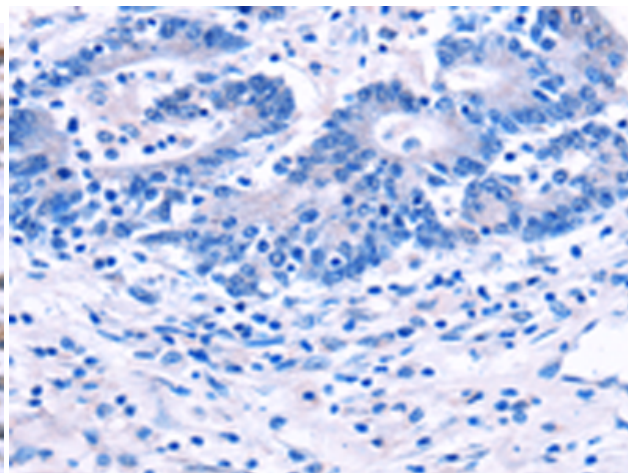
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Cancer, Metabolism, Neuroscience

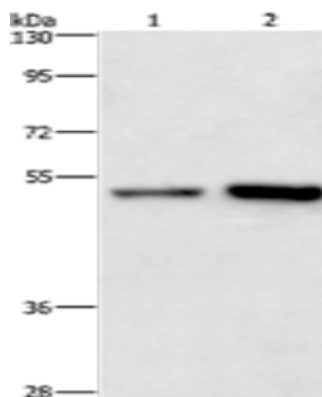
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



Immunohistochemistry analysis of paraffin embedded Human colon cancer tissue using 216807(SYT4 Antibody) at a dilution of 1/60(Cytoplasm).



In comparison with the IHC on the left, the same paraffin-embedded Human colon cancer tissue is first treated with the fusion protein and then with 216807(Anti-SYT4 Antibody) at dilution 1/60.



Gel: 8%SDS-PAGE, Lysate: 40 µg;  
Lane 1-2: HeLa cells, Jurkat cells;  
Primary antibody: 216807(SYT4 Antibody) at dilution 1/700;  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution;  
Exposure time: 20 seconds