Anti-SYT1/SYT2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R016143

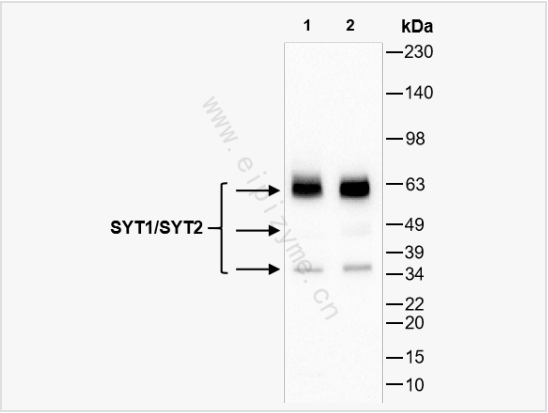
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	34I52H66
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human SYT1/SYT2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-SYT1/SYT2 Rabbit mAb [34I52H66] is for research use only and not for use in diagnostic or therapeutic procedures.

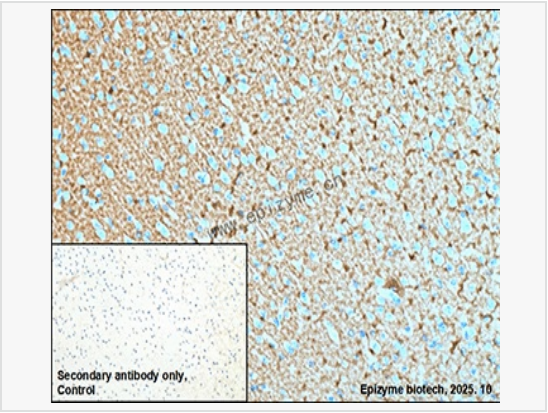
Protein Information

Synonyms	BAGOS; P65; SVP65; SYT; G630098F17Rik; SytI; SYT1_HUMAN; SYT1; Synaptotagmin I (SytI); SYT1_MOUSE; SYT1_RAT;Synaptotagmin 2; Synaptotagmin II; Synaptotagmin2; SynaptotagminII; SYT 2; Syt II; SytII.Synaptotagmin II; SYNII; Syt2; RATSYNII; SYNII; FLJ42519; KIAA4194; LOC100127887; mKIAA4194; R74640; RATSYNII; SYNAPTOTAGMIN 2; SYT2; SytII; SYT2_HUMAN.
Calculated MW	Calculated MW: 47 kDa; Observed MW: 37 kDa,48 kDa,60 kDa
Uniprot ID	P21579, Q8N9I0
Gene ID	127833, 6857
Background	SYT2: This gene encodes a synaptic vesicle membrane protein. The encoded protein is thought to function as a calcium sensor in vesicular trafficking and exocytosis. Mutations in this gene are associated with myasthenic syndrome, presynaptic, congenital, with or without motor neuropathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014] SYT1: This gene encodes a member of the synaptotagmin protein family. The synaptotagmins are integral membrane proteins of synaptic vesicles that serve as calcium sensors in the process of vesicular trafficking and exocytosis. The encoded protein participates in triggering neurotransmitter release at the synapse in response to calcium binding. Mutations in this gene are associated with Baker-Gordon syndrome. [provided by RefSeq, Jan 2023]
Cellular Location	Cytoplasmic vesicle Secretory vesicle Synaptic vesicle membrane Single-pass membrane protein Cytoplasmic vesicle Secretory vesicle Chromaffin granule membrane Single-pass membrane protein Cytoplasm
Tissue Location	Expressed at the neuromuscular junction (PubMed:33659639). Expressed in melanocytes (PubMed:23999003).

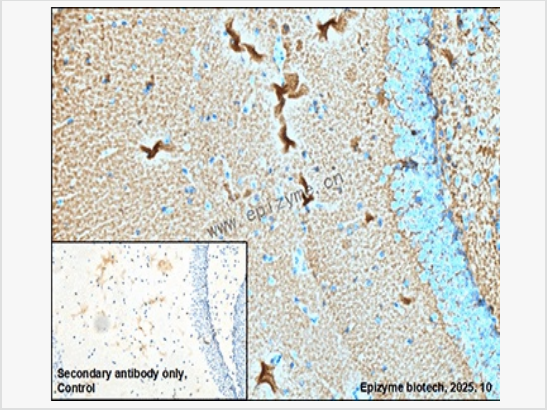
Validation Images



Western Blot - Anti-SYT1/SYT2 Rabbit mAb [34I52H66]
All lanes: R016143 at 1:1,000 dilution
Lane 1: Mouse brain whole tissue lysates
Lane 2: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 47 kDa
Observed band size: 37 kDa,48 kDa,60 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-SYT1/SYT2 Rabbit mAb [34I52H66]
Sample: Paraformaldehyde-fixed, paraffin embedded rat brain tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R016143 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-SYT1/SYT2 Rabbit mAb [34I52H66]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R016143 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
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