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anti-SYT7 antibody (AA 150-239) (APC)

Images



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Quantity:	100 μg	
Target:	SYT7	
Binding Specificity:	AA 150-239	
Reactivity:	Mouse	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This SYT7 antibody is conjugated to APC	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)	

Product Details

Immunogen:	Fusion protein amino acids 150-239 (Cytoplasmic C2A domain) of mouse Synaptotagmin-7	
Clone:	S275-14	
Isotype:	lgG2b	
Specificity:	Detects \sim 45 kDa. Does not cross-react with Synaptotagmin-6 (or others). Can identify other isoforms bands at \sim 65kD.	
Cross-Reactivity:	Human, Mouse, Rat	
Purification:	Protein G Purified	

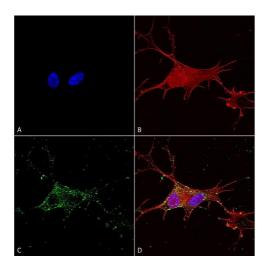
Target Details

Target:	SYT7
Alternative Name:	Synaptotagmin 7 (SYT7 Products)
Background:	Synaptotagmins constitute a family of membrane-trafficking proteins that are characterized by
	an N-terminal transmembrane region (TMR), a variable linker, and two C-terminal C2 domains -
	C2A and C2B. There are 15 members in the mammalian synaptotagmin family. There are
	several C2-domain containing protein families that are related to synaptotagmins, including
	transmembrane (Ferlins, E-Syts, and MCTPs) and soluble (RIMs, Munc13s, synaptotagmin-
	related proteins and B/K) proteins. The synaptotagmins are integral membrane proteins of
	synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and
	exocytosis. Calcium binding to synaptotagmin participates in triggering neurotransmitter
	release at the synapse. The first domain mediates Ca(2+)-dependent phospholipid binding. The
	second C2 domain mediates interaction with Stonin 2. Synaptotagmin may have a regulatory
	role in the membrane interactions during trafficking of synaptic vesicles at the active zone of
	the synapse. It binds acidic phospholipids with a specificity that requires the presence of both
	an acidic head group and a diacylbackbone. A Ca(2+)-dependent interaction between
	synaptotagmin and putative receptors for activated protein kinase C has also been reported. It
	can bind to at least three additional proteins in a Ca(2+)-independent manner, these are
	neurexins, syntaxin and AP2.
Gene ID:	54525
NCBI Accession:	NP_061271
UniProt:	Q9R0N7
Pathways:	Synaptic Vesicle Exocytosis
Application Details	
Application Notes:	• WB (1:1000)
	• ICC/IF (1:100)
	 optimal dilutions for assays should be determined by the user.
Comment:	1 μg/ml of ABIN2482943 was sufficient for detection of Synaptotagmin-7 in 20 μg of rat brain
	lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary
	antibody.
Restrictions:	For Research Use only

Handling

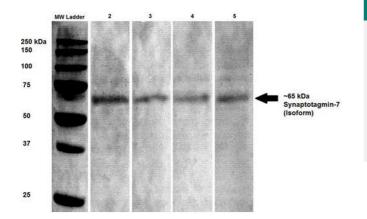
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images



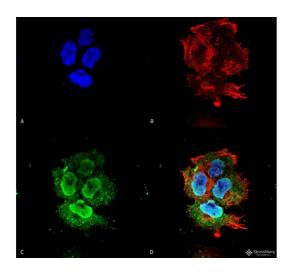
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Synaptotagmin-7 Monoclonal Antibody, Clone S275-14 (ABIN2482943). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Synaptotagmin-7 Monoclonal Antibody (ABIN2482943) at 1:100 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Synaptotagmin-7 Antibody (D) Composite.



Western Blotting

Image 2. Western Blot analysis of Rat brain lysates showing detection of Synaptotagmin 7 protein using Mouse Anti-Synaptotagmin 7 Monoclonal Antibody, Clone S275-14. Primary Antibody: Mouse Anti-Synaptotagmin 7 Monoclonal Antibody at 1:100, 1:250, 1:500, and 1:1000.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Synaptotagmin-7 Monoclonal Antibody, Clone S275-14. Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Synaptotagmin-7 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000; 1:5000 for 60 min RT, 5 min RT. Localization: Cytoplasmic Vesicle, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Synaptotagmin-7 Antibody (D) Composite.