

CoraLite® Plus 488-conjugated Synaptotagmin-1 Monoclonal antibody

Catalog Number: **CL488-68043**

Basic Information

Catalog Number: CL488-68043	GenBank Accession Number: BC058917	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 6857	CloneNo.: 1H1H2
Source: Mouse	UNIPROT ID: P21579	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Isotype: IgG1	Full Name: synaptotagmin I	
Immunogen Catalog Number: AG6071	Calculated MW: 48 kDa	
	Observed MW: 60-65 kDa	

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human, mouse, rat, pig, rabbit, chicken

Background Information

The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis (PMID: 8058779). SYT1 (synaptotagmin I) was firstly identified as a 65-kDa protein with a wide distribution in neuronal and neurosecretory tissue (PMID: 7298720). Calcium binding to SYT1 participates in triggering neurotransmitter release at the synapse (PMID: 11242035). In addition to regulating exocytosis, SYT1 has also been implicated in endocytosis and neurite outgrowth (PMID: 15492212; 11078930; 10336114).

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

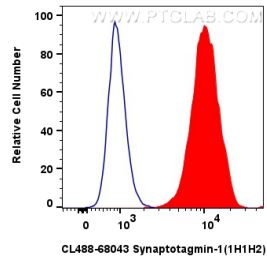
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Selected Validation Data



1×10^6 SH-SY5Y cells were intracellularly stained with 0.8 μ g CoraLite® Plus 488-conjugated Synaptotagmin-1 Monoclonal antibody (CL488-68043, Clone:1H1H2)(red), or 0.8 μ g CoraLite® Plus 488 Mouse IgG1 Isotype Control (MOPC-21) (CL488-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).