

For Research Use Only



# CoraLite® Plus 488-conjugated Synaptotagmin-1 Monoclonal antibody

Catalog Number: **CL488-68043**

## Basic Information

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

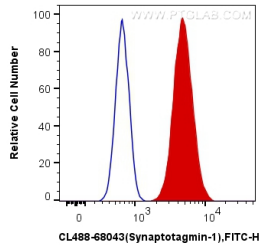
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



1X10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human Synaptotagmin-1 (CL488-68043, Clone:1H1H2) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).