

For Research Use Only

# 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:

100ul , Concentration: 1000 ug/ml by  
Nanodrop;

### GeneID (NCBI):

6857

### CloneNo.:

1H1H2

### Source:

Mouse

### UNIPROT ID:

P21579

### Excitation/Emission maxima wavelengths:

493 nm / 522 nm

### Isotype:

IgG1

### Full Name:

synaptotagmin I

### Calculated MW:

48 kDa

### Immunogen Catalog Number:

AG6071

### 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

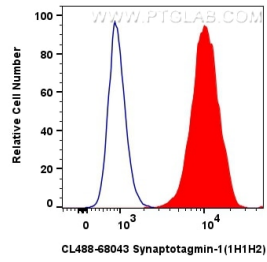
For technical support and original validation data for this product please contact:

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## Selected Validation Data



$1 \times 10^6$  SH-SY5Y cells were intracellularly stained with 0.8  $\mu$ g CoraLite® Plus 488-conjugated Synaptotagmin-1 Monoclonal antibody (CL488-68043, Clone:1H1H2)(red), or 0.8  $\mu$ 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).