

For Research Use Only

# CoraLite® Plus 488-conjugated UNC13A Monoclonal antibody

Catalog Number:CL488-68483



## Basic Information

Catalog Number:

CL488-68483

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG2a

GenBank Accession Number:

NM\_001080421

GeneID (NCBI):

23025

UNIPROT ID:

Q9UPW8

Full Name:

unc-13 homolog A (C. elegans)

Calculated MW:

193 kDa

Observed MW:

193-210 kDa

Purification Method:

Protein A purification

CloneNo.:

3C3A9

Recommended Dilutions:

IF/ICC 1:200-1:800

Excitation/Emission maxima  
wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat, pig, rabbit

Positive Controls:

IF/ICC : SH-SY5Y cells,

## Background Information

UNC13A, also named KIAA1032, belongs to the unc-13 family. It plays a role in vesicle maturation during exocytosis as a target of the diacylglycerol second messenger pathway. UNC13A is involved in neurotransmitter release by acting in synaptic vesicle priming prior to vesicle fusion and participates in the activity-dependent refilling of readily releasable vesicle pool (RRP). It is essential for synaptic vesicle maturation in most excitatory/glutamatergic but not inhibitory/GABA-mediated synapses. UNC13A is also involved in secretory granule priming in INS secretion. The antibody is specific to UNC13A.

## 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:

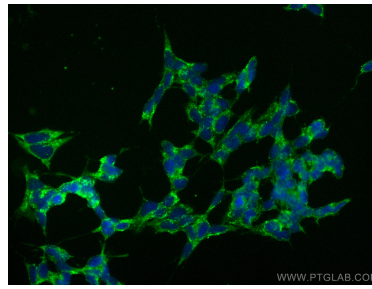
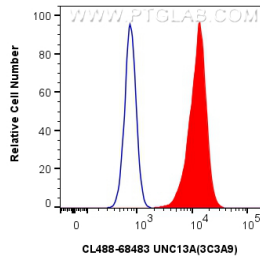
T: 4006900926

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

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

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## Selected Validation Data



1x10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.4 ug CoraLite® Plus 488-conjugated UNC13A Monoclonal antibody (CL488-68483, Clone:3C3A9)(red), or 0.4 ug CoraLite® Plus 488 Mouse IgG2a isotype control (11A1B2) (CL488-66360-2, Clone: 11A1B2). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using CoraLite® Plus 488 UNC13A antibody (CL488-68483, Clone: 3C3A9 ) at dilution of 1:400.