

For Research Use Only

CoraLite®555-conjugated UNC13A Monoclonal antibody

Catalog Number:CL555-68483



Basic Information

Catalog Number:

CL555-68483

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:**

557 nm / 570 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:

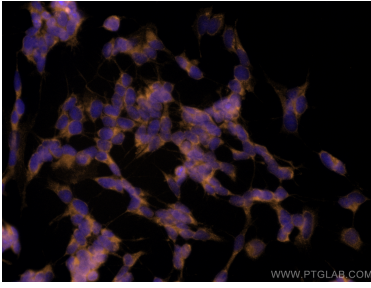
T: 4006900926

E: Proteintech-CN@ptglab.com

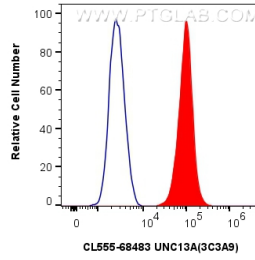
W: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using CoraLite®555 UNC13A antibody (CL555-68483, Clone: 3C3A9) at dilution of 1:400.



1x10⁶ SH-SY5Y cells were intracellularly stained with 0.4 ug CoraLite®555-conjugated UNC13A Monoclonal antibody (CL555-68483, Clone:3C3A9) (red), or 0.4 ug CoraLite® Plus 555 Mouse IgG2a isotype control (11A1B2) (CL555-66360-2, Clone: 11A1B2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).