

For Research Use Only

CoraLite® Plus 488-conjugated UNC13A Monoclonal antibody

Catalog Number:CL488-68483



Basic Information

Catalog Number: CL488-68483	GenBank Accession Number: NM_001080421	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 23025	CloneNo.: 3C3A9
Source: Mouse	UNIPROT ID: Q9UPW8	Recommended Dilutions: IF/ICC 1:200-1:800
Isotype: IgG2a	Full Name: unc-13 homolog A (C. elegans)	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
	Calculated MW: 193 kDa	
	Observed MW: 193-210 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : SH-SY5Y cells,
Species Specificity: human, mouse, rat, pig, rabbit	

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.

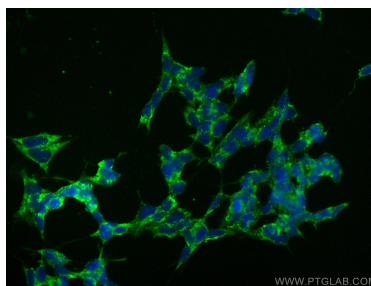
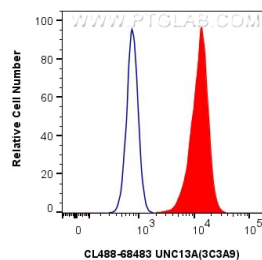
Storage

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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



1x10⁶ 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.