

For Research Use Only

# CoraLite®594-conjugated UNC13A Monoclonal antibody



Catalog Number:CL594-68483

## Basic Information

<b>Catalog Number:</b> CL594-68483	<b>GenBank Accession Number:</b> NM_001080421	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 23025	<b>CloneNo.:</b> 3C3A9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9UPW8	<b>Recommended Dilutions:</b> IF 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> unc-13 homolog A (C. elegans)	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
	<b>Calculated MW:</b> 193 kDa	
	<b>Observed MW:</b> 193-210 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : SH-SY5Y cells,
<b>Species Specificity:</b> 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

\*\*\* 20ul sizes contain 0.1% BSA

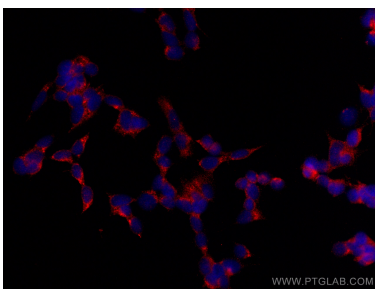
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using CoraLite@594 UNC13A antibody (CL594-68483, Clone: 3C3A9) at dilution of 1:400.