

For Research Use Only

# CoraLite®594-conjugated Drebrin Monoclonal antibody



Catalog Number:CL594-67589

## Basic Information

<b>Catalog Number:</b> CL594-67589	<b>GenBank Accession Number:</b> BC007567	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1627	<b>CloneNo.:</b> 1A12H1
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000113758	<b>Recommended Dilutions:</b> IF-P 1:50-1:500 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG2a	<b>UNIPROT ID:</b> Q16643	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Immunogen Catalog Number:</b> AG22635	<b>Full Name:</b> drebrin 1	
	<b>Observed MW:</b> 110-120 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IF-P, FC (Intra)	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	IF-P : mouse brain tissue, IF/ICC : SH-SY5Y cells,

## Background Information

Drebrin (DBN1) is an actin binding and stabilizing protein with roles in endocytosis, formation of dendrite spines in neurons and coordinating cell-cell synapses in immune cells. Preferentially expressed in the brain, it is highly localized in dendritic spines and regulates spine shapes. It has two isoforms that are splice variants, with drebrin A being expressed in neural cells, and drebrin E is present in several other cell types. Recently it has been reported that circulating DBN1 levels correlated with retinal nerve fiber layer defect and may reflect the severity of retinal ganglion cells injury in glaucoma patients.

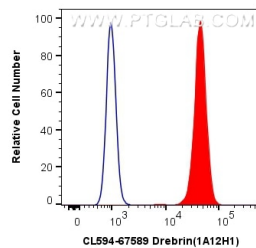
## Storage

**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**

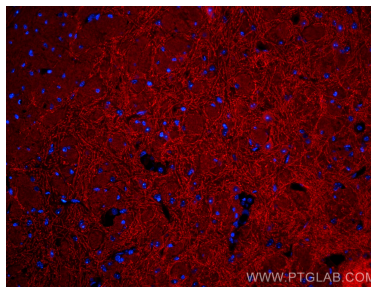
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

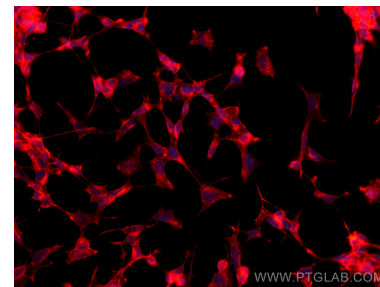
## Selected Validation Data



$1 \times 10^6$  SH-SY5Y cells were intracellularly stained with 0.4  $\mu$ g CoraLite® 594 Anti-Human Drebrin (CL594-67589, Clone: 1A12H1) (red), or 0.4  $\mu$ g Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CoraLite® 594 Drebrin antibody (CL594-67589, Clone: 1A12H1) at dilution of 1:200.



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using CoraLite® 594 Drebrin antibody (CL594-67589, Clone: 1A12H1) at dilution of 1:200.