

For Research Use Only

# CoraLite®594-conjugated GAD1 Monoclonal antibody



Catalog Number:CL594-67648

## Basic Information

<b>Catalog Number:</b> CL594-67648	<b>GenBank Accession Number:</b> BC002815	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2571	<b>CloneNo.:</b> 2D5B7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q99259	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG2a	<b>Full Name:</b> glutamate decarboxylase 1 (brain, 67kDa)	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Immunogen Catalog Number:</b> AG21336	<b>Calculated MW:</b> 67 kDa	
	<b>Observed MW:</b> 67 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : mouse brain tissue,
<b>Species Specificity:</b> Human, mouse, rat, pig, rabbit	

## Background Information

The GAD1(glutamate decarboxylase 1) gene encodes 67 kDa glutamic acid decarboxylase isoform (GAD67), the rate-limiting enzyme responsible for  $\gamma$ -aminobutyric acid (GABA) biosynthesis from glutamic acid and the major GAD isoform in the human brain for early brain development(PMID:21302352). It is also potentially involved in variety of skin activities. It belongs to the group II decarboxylase family.

## Storage

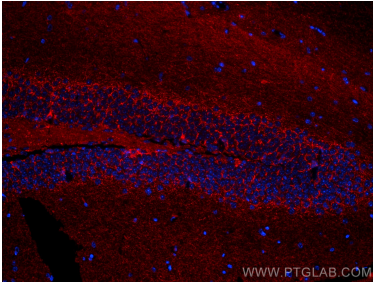
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

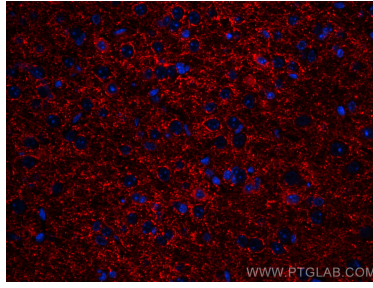
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CoraLite®594 GAD1 antibody (CL594-67648, Clone: 2D5B7) at dilution of 1:200.



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