

# CoraLite® Plus 488-conjugated VAMP2 Monoclonal antibody

Catalog Number: **CL488-67822**

## Basic Information

<b>Catalog Number:</b> CL488-67822	<b>GenBank Accession Number:</b> BC002737	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6844	<b>CloneNo.:</b> 1G7E8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P63027	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Isotype:</b> IgG3	<b>Full Name:</b> vesicle-associated membrane protein 2 (synaptobrevin 2)	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG17908	<b>Calculated MW:</b> 13 kDa	
	<b>Observed MW:</b> 19 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF/ICC : U-87 MG cells,
<b>Species Specificity:</b> Human, Mouse, Rat, Pig, Rabbit	

## Background Information

VAMP2 (vesicle-associated membrane protein 2), also named as synaptobrevin 2, is a member of the SNARE (soluble NSF-attachment protein receptor) family proteins. Characterized by a common sequence called the SNARE motif, SNARE proteins are involved in membrane fusion and vesicular transport (PMID: 11252968). VAMP2, with a molecular mass of 15-19 kDa, consists of a short N-terminal sequence, a SNARE motif, and a C-terminal transmembrane region. It is required for fast calcium-triggered synaptic vesicle fusion. VAMP2 forms a stable complex with STX1 (syntaxin 1) and SNAP25 (synaptosomal-associated protein 25) during synaptic vesicle fusion (PMID: 16793874). It also forms a distinct complex with synaptophysin. VAMP2 is expressed in nervous system and some non-neuronal tissues, such as skeletal muscle (PMID: 18570252).

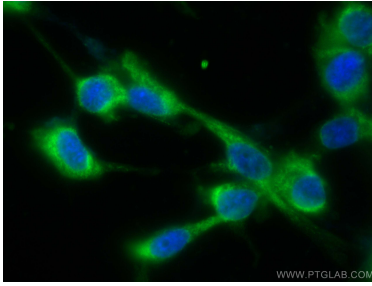
## Storage

**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:  
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## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed U-87 MG cells using CoraLite® Plus 488 VAMP2 antibody (CL488-67822, Clone: 1G7E8 ) at dilution of 1:200.