

For Research Use Only

CoraLite® Plus 488-conjugated VAMP2 Monoclonal antibody



Catalog Number:CL488-67822

Basic Information

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

Applications

Tested Applications: IF	Positive Controls: IF : U-87 MG cells,
Species Specificity: 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

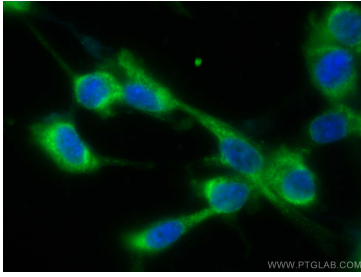
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

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.