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**Product Name: VAMP2 Mouse Monoclonal Antibody****Catalog #: AMM82986**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	IHC,ELISA,FC
<b>Reactivity</b>	Human, Mouse, Monkey, Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	12.7kDa

**Antigen Information**

<b>Gene Name</b>	VAMP2
<b>Alternative Names</b>	SYB2; VAMP-2; NEDHAHM
<b>Gene ID</b>	6844.0
<b>SwissProt ID</b>	P63027
<b>Immunogen</b>	Purified recombinant fragment of human VAMP2 (AA: 2-89aa) expressed in E. Coli.

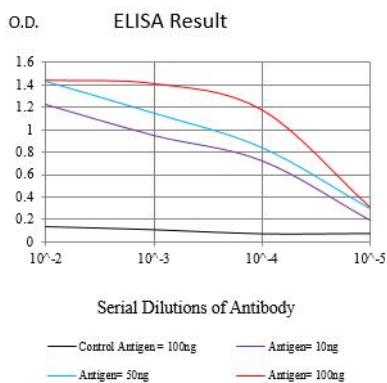
**Background**

The protein encoded by this gene is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family. Synaptobrevins/VAMPs, syntaxins, and the 25-kD synaptosomal-associated protein SNAP25 are the main components of a protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane. This gene is

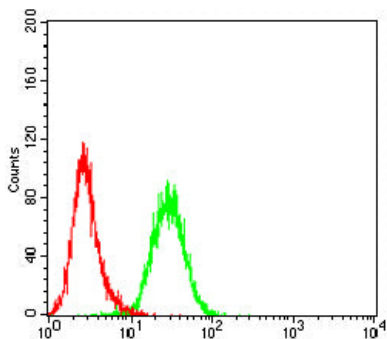
thought to participate in neurotransmitter release at a step between docking and fusion. The protein forms a stable complex with syntaxin, synaptosomal-associated protein, 25 kD, and synaptotagmin. It also forms a distinct complex with synaptophysin. It is a likely candidate gene for familial infantile myasthenia (FIMG) because of its map location and because it encodes a synaptic vesicle protein of the type that has been implicated in the pathogenesis of FIMG.

## Research Area

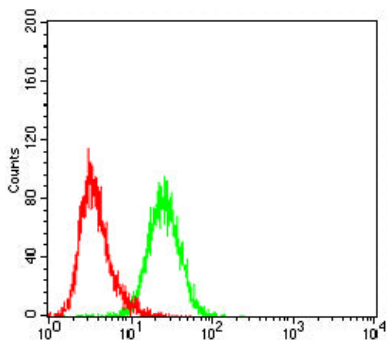
## Image Data



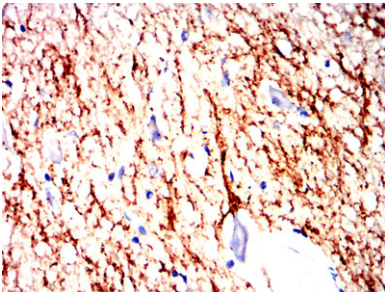
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



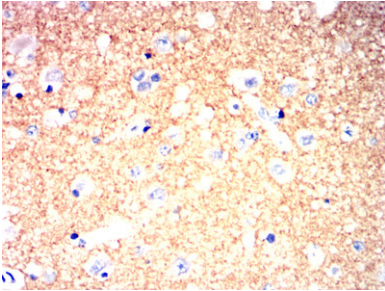
Flow cytometric analysis of HeLa cells using VAMP2 mouse mAb (green) and negative control (red).



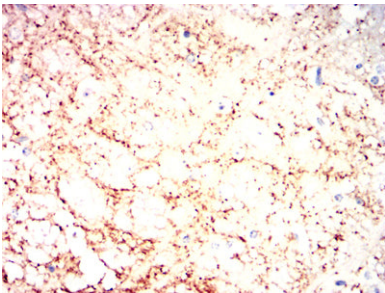
Flow cytometric analysis of COS-7 cells using VAMP2 mouse mAb (green) and negative control (red).



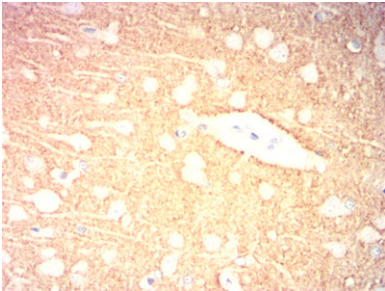
Immunohistochemical analysis of paraffin-embedded human medulla oblongata tissues using VAMP2 mouse mAb with DAB staining.



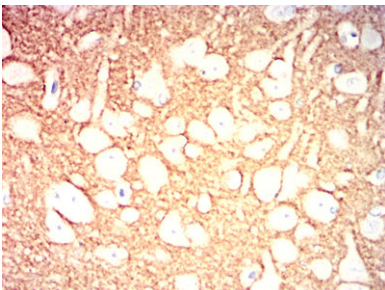
Immunohistochemical analysis of paraffin-embedded human brain tissues using VAMP2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Mouse cerebellum tissues using VAMP2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rat brain tissues using VAMP2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rabbit brain tissues using VAMP2 mouse mAb with DAB staining.