

RecomAb™

# VAMP2 recombinant monoclonal antibody, clone R04-7A5

Catalog # RAB01838      Size 100 uL

## Applications



### Western Blot

Western blot analysis of rat brain lysates with VAMP2 recombinant monoclonal antibody, clone R04-7A5 (Cat # RAB01838).

## Specification

|                      |                                                                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description  | Rabbit recombinant monoclonal antibody raised against human VAMP2.                                                                                                 |
| Antibody Species     | Rabbit                                                                                                                                                             |
| Immunogen            | Original antibody is raised against a synthetic peptide corresponding to human VAMP2.                                                                              |
| Theoretical MW (kDa) | Calculated MW: 13 kD                                                                                                                                               |
| Reactivity           | Human, Mouse, Rat                                                                                                                                                  |
| Form                 | Liquid                                                                                                                                                             |
| Purification         | Affinity purification                                                                                                                                              |
| Isotype              | IgG                                                                                                                                                                |
| Recommend Usage      | Immunofluorescence (1:50-1:200)<br>Immunoprecipitation (1:20)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer       | In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)                                                                        |

**Storage Instruction**

Store at -20 °C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot

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- Immunofluorescence

- Immunoprecipitation

## Gene Info — VAMP2

**Entrez GeneID**[6844](#)**Protein Accession#**[P63027](#)**Gene Name**

VAMP2

**Gene Alias**

FLJ11460, SYB2, VAMP-2

**Gene Description**

vesicle-associated membrane protein 2 (synaptobrevin 2)

**Omim ID**[185881](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. [provided by RefSeq]

**Other Designations**

synaptobrevin 2|vesicle associated membrane protein 2

## Pathway

- [SNARE interactions in vesicular transport](#)

## Disease

- [Alzheimer disease](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Epilepsy](#)
- [Genetic Predisposition to Disease](#)
- [Mental Retardation](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Psychiatric Status Rating Scales](#)
- [Schizophrenia](#)