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Anti-VAMP2 Rabbit Monoclonal Antibody

Catalog # ABO13769

Specification

Anti-VAMP2 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IF, ICC, IP, FC**
Primary Accession	P63027
Host	**Rabbit**
Isotype	**Rabbit IgG**
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-VAMP2 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-VAMP2 Rabbit Monoclonal Antibody - Additional Information

Gene ID 6844

Other Names
Vesicle-associated membrane protein 2, VAMP-2, Synaptobrevin-2, VAMP2 (HGNC:12643), SYB2

Calculated MW
12663 MW KDa

Application Details
WB 1:1000-1:5000
ICC/IF 1:50-1:200
IP 1:50
FC 1:50

Subcellular Localization
Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass type IV membrane protein. Cell junction, synapse, synaptosome. Cell membrane. Neuronal synaptic vesicles. Colocalizes with PRKCZ and WDFY2 in intracellular vesicles (PubMed:17313651)..

Tissue Specificity
Nervous system and skeletal muscle..

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human VAMP2

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-VAMP2 Rabbit Monoclonal Antibody - Protein Information

Name VAMP2 (HGNC:12643)

Synonyms SYB2

Function
Involved in the targeting and/or fusion of transport vesicles to their target membrane (By similarity). Major SNARE protein of synaptic vesicles which mediates fusion of synaptic vesicles to release neurotransmitters. Essential for fast vesicular exocytosis and activity-dependent neurotransmitter release as well as fast endocytosis that mediates rapid reuse of synaptic vesicles (By similarity) (PubMed:30929742). Modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1.

Cellular Location
Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass type IV membrane protein. Cell membrane {ECO:0000250|UniProtKB:P63045}. Note=Colocalizes with PRKCZ and WDFY2 in intracellular vesicles (PubMed:17313651)

Tissue Location
Nervous system and skeletal muscle.

Anti-VAMP2 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-VAMP2 Rabbit Monoclonal Antibody - Images

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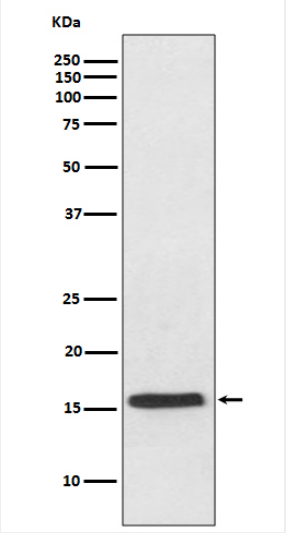

Western blot analysis of VAMP2 expression in mouse brain lysate.