

Human VAMP-2 antibody

Catalog Number: AVA0710

PRODUCT INFORMATION

Catalog number

AVA0710

Clone No.

3E5

Product type

Monoclonal Antibody

UnitProt No.

P63027

NCBI Accession No.

NP_055047

Alternative Names

vesicle-associated membrane protein 2, VAMP2, SYB2, Synaptobrevin 2, VAMP-2, Synaptobrevin-2, Vesicle-associated membrane protein 2, vesicle-associated membrane protein 2 FLJ11460, RATVAMPB, RATVAMPIR, SYB, VAMP 2, Vesicle associated membrane protein 2, Vesicle-associated membrane protein 2 (synaptobrevin 2)

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human, Mouse

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human Synaptobrevin 2 (1-89aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

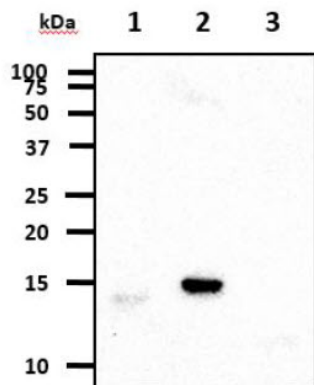
Synaptobrevin 2 (Vesicle-associated membrane, VAMP2), which is an 18 kDa integral membrane protein localized to the cytoplasmic surface of synaptic vesicle, consists of a proline-rich N-terminal region, a highly conserved hydrophilic domain, followed by a transmembrane anchor and a C-terminal tail. Synaptobrevin 2 is predominantly expressed in Langerhans islets and glomerular cells. The N-terminal domain of the protein forms a specific SNARE complex with the target membrane-associated t- or Q-SNAREs syntaxin 1 and SNAP-25. This antibody recognizes specifically synaptobrevin 2, but it also shows a low affinity to synaptobrevin 1.

General References

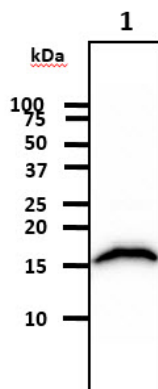
Andres C et al.,(1995) Proc Natl Acad Sci USA 92:5987-5991.
Jacobsson G et al.,(1998) European Journal of Neuroscience 16:301-316.
Scales S.J. et al (2002) J Biol. Chem. 277(31):28271-28279.
Pennuto M et al., (2003) Mol Biol Cell. 14:4909-19.

DATA

Western blot analysis (WB)



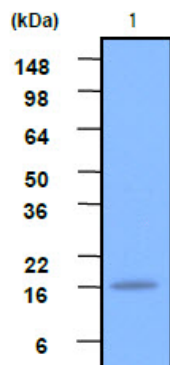
The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human VAMP-2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: Recombinant human VAMP1 protein
Lane 2.: Recombinant human VAMP2 protein
Lane 3.: Recombinant human VAMP3 protein



The tissue lysate (50ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human VAMP-2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: Mouse brain Tissue lysate

Human VAMP-2 antibody

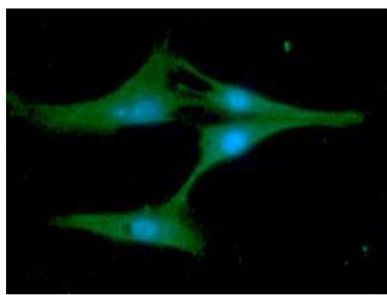
Catalog Number: AVA0710



The tissue lysate (20ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human VAMP-2 antibody (1:2000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Rat brain Tissue lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of VAMP-2 in U87MG cells. The cell was stained with AVA0710 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).