

Recombinant human VAMP-2 protein

Catalog Number: VAM0710

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-89aa

UniProt No.

P63027

NCBI Accession No.

NP_055047.2

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

Molecular Weight

13.8 kDa (126aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-buffered saline (pH 7.4) 1mM EDTA

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

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. Synaptobrevin 2 is predominantly expressed in Langerhans islets and glomerular cells. The N-terminal domain of the protein

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(residues 1-89) forms a specific SNARE complex with the target membrane-associated t- or Q-SNAREs syntaxin 1 and SNAP-25.

Amino acid Sequence

<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSH>MSA TAATAPPAAP AGE GGPAPP PNLTSNRRRLQ
QTQAQVDEVV DIMRVNVDKV LERDQKLESEL DDRADALQAG ASQFETSAAK LKRKYW

General References

Lin RC. and Scheller RH. (1997) Neuron. 19:1087-1094.

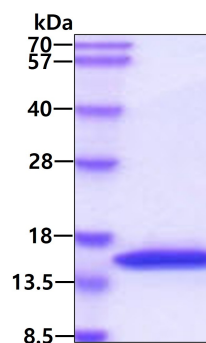
Hanson PI. et al (1997) Cell 90:523-535.

Scales SJ., et al. (2002) J Biol Chem. 277(31):28271-9.

Windoffer R et al. (1999) Cell Tissue Res 296:499-510

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.