

Recombinant Human VAMP2 Protein, His&GST-tagged

Cat. No. VAMP2-544H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VAMP2 Protein (Ser2-Thr116) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser2-Thr116
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 45.2 kDa Accurate Molecular Mass: 45 kDa

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Purity	> 80%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	VAMP2 vesicle-associated membrane protein 2 (synaptobrevin 2) [Homo sapiens (human)]
Official Symbol	VAMP2
Synonyms	VAMP2; vesicle-associated membrane protein 2 (synaptobrevin 2); SYB2; vesicle-associated membrane protein 2; VAMP 2; synaptobrevin 2; synaptobrevin-2; vesicle associated membrane protein 2; VAMP-2; FLJ11460
Gene ID	6844
mRNA Refseq	NM_014232

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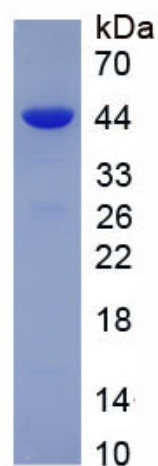
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Protein Refseq NP_055047

MIM 185881

UniProt ID P63027



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