VAT1 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	VAT1, Blocking Peptide
Full Product Name	VAT1 Peptide - N-terminal region
Product Gene Name	VAT1 blocking peptide
Product Synonym Gene Name	FLJ20230; VATI
Sequence	PPAPGPGQLT LRLRACGLNF ADLMARQGLY DRLPPLPVTP GMEGAGVVIA
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	VAT1 peptide (MBS3235598) is used for blocking the activity of VAT1 antibody (MBS3210643)
Molecular Weight	42kDa
OMIM	604631
Product Categories/Family for VAT1 blocking peptide	Peptide
Applications Tested/Suitable for VAT1 blocking peptide	Western Blot (WB)
Related Product Information for VAT1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-VAT1 Antibody, made Target Description: Synaptic vesicles are responsible for regulating the storage and release of neurotransmitters in the nerve terminal. The protein encoded by this gene is an abundant integral membrane protein of cholinergic synaptic vesicles and is thought to be involved in vesicular transport. It belongs to the quinone oxidoreductase subfamily of zinc-containing alcohol dehydrogenase proteins.
Other Notes	Small volumes of VAT1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VAT1 purchase	MBS3235598 is a blocking peptide targeting VAT1. Also known as VAT1 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VAT1. It may not necessarily be applicable to this product.

NCBI GI #	18379349
NCBI GeneID	10493
NCBI Accession #	NP_006364
UniProt Primary Accession #	Q99536
UniProt Related Accession #	Q99536
GenBank Nucleotide #	NM_006373
NCBI Official Full Name	synaptic vesicle membrane protein VAT-1 homolog

NCBI Official Synonym Full Names	vesicle amine transport 1
NCBI Official Symbol	VAT1
NCBI Official Synonym Symbols	VATI
UniProt Protein Name	Synaptic vesicle membrane protein VAT-1 homolog
Protein Family	Synaptic vesicle membrane protein
UniProt Gene Name	VAT1
UniProt Entry Name	VAT1_HUMAN
NCBI Protein Information	synaptic vesicle membrane protein VAT-1 homolog
NCBI Summary for VAT1	Synaptic vesicles are responsible for regulating the storage and release of neurotransmitters in the nerve terminal. The protein encoded by this gene is an abundant integral membrane protein of cholinergic synaptic vesicles and is thought to be involved in vesicular transport. It belongs to the quinone oxidoreductase subfamily of zinc-containing alcohol dehydrogenase proteins. [provided by RefSeq, Jul 2008]
UniProt Comments for VAT1	VAT1: Possesses ATPase activity. Plays a part in calcium-regulated keratinocyte activation in epidermal repair mechanisms. Has no effect on cell proliferation. Negatively regulates mitochondrial fusion in cooperation with mitofusin proteins (MFN1-2). Belongs to the zinc-containing alcohol dehydrogenase family. Quinone oxidoreductase subfamily. Protein type: Membrane protein, integral; Oxidoreductase; EC 1.-.-.- Chromosomal Location of Human Ortholog: 17q21 Cellular Component: mitochondrial outer membrane; integral to membrane Molecular Function: zinc ion binding; oxidoreductase activity
Research Articles on VAT1	**1.** We demonstrate that VAT-1 is a novel pathogenic factor in benign prostatic hyperplasia associated with cell proliferation.
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