Vti1a Blocking Peptide

PRODUCT OVERVIEW

Product Name	VTI1a, Blocking Peptide
Full Product Name	VTI1a Peptide
Product Gene Name	VTI1a blocking peptide
Product Synonym Names	Vesicle transport through interaction with t-SNAREs 1A, MMDS3, MVti1, VTI1RP2, Vti1-rp2
Host	Human
Form/Format	Liquid
Concentration	200 ug/mL (lot specific)
Preparation and Storage	Store at -20 degree C, stable for one year.
Antibody/Peptide Pairs	VTI1a peptide (MBS154426) is used for blocking the activity of VTI1a antibody (MBS154384)
Molecular Weight	23,435 Da
OMIM	614316
Buffer	PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide
Location	19 amino acid peptide near the center of human VTI1a.
Applications Tested/Suitable for VTI1a blocking peptide	Blocking (BL)
Related Product Information for VTI1a blocking peptide	MBS154426 is a blocking peptide targeting VTI1a. Also known as VTI1a Peptide. Host: Human.
Product References and Citations for VTI1a blocking peptide	Fischer VM and Stevens TH. A human homolog can functionally replace the yeast vesicle-associated SNARE Vti1p in two vesicle transport pathways. J. Biol. Chem. 1998; 273:2624-30.
Other Notes	Small volumes of VTI1a 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VTI1a. It may not necessarily be applicable to this product.

NCBI GI #	113374156
NCBI GeneID	143187
NCBI Accession #	NP_660207
UniProt Primary Accession #	Q96AJ9
UniProt Secondary Accession #	Q5W0D7; A2A307; B4E137
UniProt Related Accession #	Q96AJ9
GenBank Nucleotide #	NM_145206.3
NCBI Official Full Name	vesicle transport through interaction with t-SNAREs homolog 1A isoform b

NCBI Official Synonym Full Names	vesicle transport through interaction with t-SNAREs 1A
NCBI Official Symbol	VTI1A
NCBI Official Synonym Symbols	MMDS3; MVti1; VTI1RP2; Vti1-rp2
UniProt Protein Name	Vesicle transport through interaction with t-SNAREs homolog 1A
UniProt Synonym Protein Names	Vesicle transport v-SNARE protein Vti1-like 2; Vti1-rp2
Protein Family	Vesicle transport through interaction with t-SNAREs
UniProt Gene Name	VTI1A
UniProt Entry Name	VTI1A_HUMAN
NCBI Protein Information	vesicle transport through interaction with t-SNAREs homolog 1A
NCBI Summary for VTI1a	The protein encoded by this gene is a member of the family of soluble N-ethylmaleimide-sensitive fusion protein-attachment protein receptors (SNAREs) that function in intracellular trafficking. This family member is involved in vesicular transport between endosomes and the trans-Golgi network. It is a vesicle-associated SNARE (v-SNARE) that interacts with target membrane SNAREs (t-SNAREs). Polymorphisms in this gene have been associated with binocular function, and also with susceptibility to colorectal and lung cancers. A recurrent rearrangement has been found between this gene and the transcription factor 7-like 2 (TCF7L2) gene in colorectal cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]
UniProt Comments for VTI1a	VTI1A: V-SNARE that mediates vesicle transport pathways through interactions with t-SNAREs on the target membrane. These interactions are proposed to mediate aspects of the specificity of vesicle trafficking and to promote fusion of the lipid bilayers. Involved in vesicular transport from the late endosomes to the trans-Golgi network. Along with VAMP7, involved in an non- conventional RAB1-dependent traffic route to the cell surface used by KCNIP1 and KCND2. May be involved in increased cytokine secretion associated with cellular senescence. Belongs to the VTI1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 10q25.2 Cellular Component: autophagic vacuole; cell soma; clathrin-coated vesicle; cytosol; endoplasmic reticulum membrane; endosome; Golgi apparatus; Golgi membrane; integral to membrane; late endosome membrane; perinuclear region of cytoplasm; SNARE complex; synaptic vesicle; trans-Golgi network membrane Molecular Function: protein binding; SNAP receptor activity; SNARE binding Biological Process: autophagy; ER to Golgi vesicle-mediated transport; Golgi to vacuole transport; intra-Golgi vesicle-mediated transport; protein targeting to vacuole; retrograde transport, endosome to Golgi; vesicle fusion with Golgi apparatus; voluntary musculoskeletal movement Disease: Multiple Mitochondrial Dysfunctions Syndrome 3
Research Articles on VTI1a	**1.** analysis of a new susceptibility locus for colorectal cancer in VTI1A [meta-analysis]
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