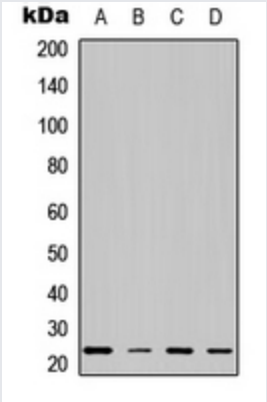
VTI1A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	VTI1A, Polyclonal Antibody
Full Product Name	Anti-VTI1A Antibody
Product Gene Name	anti-VTI1A antibody
Product Synonym Names	Vesicle transport through interaction with t-SNAREs homolog 1A; Vesicle transport v-SNARE protein Vti1-like 2; Vti1-rp2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of VTI1A protein.
Preparation and Storage	Shipped and store at 4 degree C for one year. Do not freeze.
Antibody/Peptide Pairs	VTI1A peptide (MBS8243339) is used for blocking the activity of VTI1A antibody (MBS8242637)
Molecular Weight	23,435 Da
OMIM	614316
3D Structure	ModBase 3D Structure for Q96AJ9
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human VTI1A. The exact sequence is proprietary.
Applications Tested/Suitable for anti-VTI1A antibody	Western Blot (WB)
Application Notes for anti-VTI1A antibody	Western Blot: (1/500 - 1/1000)
Related Product Information for anti-VTI1A antibody	MBS8242637 is an antibody targeting VTI1A. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to VTI1A
Other Notes	Small volumes of anti-VTI1A antibody 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.



Western Blot (WB) of anti-VTI1A antibody
Western blot analysis of VTI1A expression in SHSY5Y (A), COLO205 (B), NIH3T3 (C), rat muscle (D) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VTI1A. It may not necessarily be applicable to this product.

NCBI GI #	374095459
NCBI GeneID	143187
NCBI Accession #	Q96AJ9.2
UniProt Primary Accession #	Q96AJ9
UniProt Secondary Accession #	Q5W0D7; A2A307; B4E137
UniProt Related Accession #	Q96AJ9
NCBI Official Full Name	Vesicle transport through interaction with t-SNAREs homolog 1A
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; endosome; Golgi apparatus; Golgi membrane; integral to membrane; perinuclear region of cytoplasm; SNARE complex; synaptic vesicle Molecular Function: protein binding; SNAP receptor activity; SNARE binding Biological Process: autophagy; ER to Golgi vesicle-mediated transport; intracellular protein transport; 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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