VTCN1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	VTCN1, Polyclonal Antibody
Full Product Name	VTCN1 Antibody
Product Gene Name	anti-VTCN1 antibody
Product Synonym Names	B7X; B7H4; B7S1; B7-H4; B7h.5; VCTN1; PRO1291; RP11-229A19.4
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total VTCN1 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	30,878 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (117686209..117753582, complement). Location: 1p13.1
OMIM	608162
3D Structure	ModBase 3D Structure for Q7Z7D3
Immunogen	Fusion protein corresponding to residues near the N terminal of human V-set domain containing T cell activation inhibitor 1
Product Categories/Family for anti-VTCN1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-VTCN1 antibody	Immunohistochemistry (IHC)
Application Notes for anti-VTCN1 antibody	IHC: 1:25-1:100
Related Product Information for anti-VTCN1 antibody	This gene encodes a protein belonging to the B7 costimulatory protein family. Proteins in this family are present on the surface of antigen-presenting cells and interact with ligand bound to receptors on the surface of T cells. Studies have shown that high levels of the encoded protein has been correlated with tumor progression. A pseudogene of this gene is located on chromosome 20. Multiple transcript variants encoding different isoforms have been found for this gene
Other Notes	Small volumes of anti-VTCN1 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.
Searchable Terms for VTCN1 purchase	MBS8589623 is an antibody targeting VTCN1. Also known as VTCN1 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VTCN1. It may not necessarily be applicable to this product.

NCBI GI #	70997756
NCBI GeneID	79679
NCBI Accession #	AAZ17406.1
UniProt Primary Accession #	Q7Z7D3
UniProt Secondary Accession #	Q0GN76; Q45VN0; Q5WPZ3; Q6P097; Q9H6B2
UniProt Related Accession #	Q7Z7D3
NCBI Official Full Name	B7-H4
NCBI Official Synonym Full Names	V-set domain containing T cell activation inhibitor 1
NCBI Official Symbol	VTCN1
NCBI Official Synonym Symbols	B7X; B7H4; B7S1; B7-H4; B7h.5; VCTN1; PRO1291; RP11-229A19.4
UniProt Protein Name	V-set domain-containing T-cell activation inhibitor 1
UniProt Synonym Protein Names	B7h.5; Immune costimulatory protein B7-H4; Protein B7S1; T-cell costimulatory molecule B7x
Protein Family	V-set domain containing T-cell activation inhibitor
UniProt Gene Name	VTCN1
UniProt Synonym Gene Names	B7H4
UniProt Entry Name	VTCN1_HUMAN
NCBI Protein Information	V-set domain-containing T-cell activation inhibitor 1; B7 family member, H4; B7 superfamily member 1; T cell costimulatory molecule B7x; T-cell costimulatory molecule B7x; immune costimulatory protein B7-H4
NCBI Summary for VTCN1	This gene encodes a protein belonging to the B7 costimulatory protein family. Proteins in this family are present on the surface of antigen-presenting cells and interact with ligand bound to receptors on the surface of T cells. Studies have shown that high levels of the encoded protein has been correlated with tumor progression. A pseudogene of this gene is located on chromosome 20. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
UniProt Comments for VTCN1	VTCN1: Negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. When expressed on the cell surface of tumor macrophages, plays an important role, together with regulatory T-cells (Treg), in the suppression of tumor- associated antigen-specific T-cell immunity. Involved in promoting epithelial cell transformation. Belongs to the immunoglobulin superfamily. BTN/MOG family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 1p13.1 Cellular Component: integral to membrane; external side of plasma membrane Molecular Function: receptor binding Biological Process: response to protozoan; immune system process; positive regulation of T cell proliferation; negative regulation of T cell activation
Research Articles on VTCN1	**1.** B7-H4 expression in malignant tumors is useful for clinical diagnosis, and may provide a novel molecular target for cancer treatment.[review]
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