VTCN1 Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	VTCN1, Blocking Peptide
Full Product Name	VTCN1 Antibody (Center) Blocking Peptide
Product Gene Name	VTCN1 blocking peptide
Product Synonym Names	V-set domain-containing T-cell activation inhibitor 1; B7 homolog 4; B7-H4; B7h5; Immune costimulatory protein B7-H4; Protein B7S1; T-cell costimulatory molecule B7x; VTCN1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	VTCN1 peptide (MBS9228416) is used for blocking the activity of VTCN1 antibody (MBS9212848)
Molecular Weight	20,743 Da
OMIM	608162
Cellular Location	Cell membrane; Single-pass type I membrane protein. Note: Expressed at the cell surface. A soluble form has also been detected.
Tissue Location	Overexpressed in breast, ovarian, endometrial, renal cell (RCC) and non-small-cell lung cancers (NSCLC) Expressed on activated T- and B-cells, monocytes and dendritic cells, but not expressed in most normal tissues (at protein level). Widely expressed, including in kidney, liver, lung, ovary, placenta, spleen and testis.
Related Product Information for VTCN1 blocking peptide	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.
Other Notes	Small volumes of VTCN1 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 VTCN1 purchase	MBS9228416 is a blocking peptide targeting VTCN1. Also known as VTCN1 Antibody (Center) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	74759262
NCBI GeneID	79679
NCBI Accession #	Q7Z7D3.1
UniProt Primary Accession #	Q7Z7D3
UniProt Secondary Accession #	Q0GN76; Q45VN0; Q5WPZ3; Q6P097; Q9H6B2
UniProt Related Accession #	Q7Z7D3
NCBI Official Full Name	V-set domain-containing T-cell activation inhibitor 1
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
UniProt Protein Name	V-set domain-containing T-cell activation inhibitor 1
UniProt Synonym Protein Names	B7 homolog 4; B7-H4; 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	B7-H4
UniProt Entry Name	VTCN1_HUMAN
NCBI Protein Information	V-set domain-containing T-cell activation inhibitor 1
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
Research Articles on VTCN1	**1.** Data show that disrupted control of costimulation, evidenced by VTCN1 loss in both APCs and pancreatic islets, ultimately results in altered balance of control of immune responses.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/vtcn1/9228416