CD276 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CD276, Blocking Peptide
Full Product Name	CD276 Antibody (C-term) Blocking peptide
Product Gene Name	CD276 blocking peptide
Product Synonym Gene Name	B7H3
Product Synonym Names	CD276 antigen; 4Ig-B7-H3; B7 homolog 3; B7-H3; Costimulatory molecule; CD276; CD276; B7H3
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	CD276 peptide (MBS9219398) is used for blocking the activity of CD276 antibody (MBS9208560)
Molecular Weight	57,165 Da
OMIM	605715
Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	Ubiquitous but not detectable in peripheral blood lymphocytes or granulocytes. Weakly expressed in resting monocytes. Expressed in dendritic cells derived from monocytes Expressed in epithelial cells of sinonasal tissue. Expressed in extravillous trophoblast cells and Hofbauer cells of the first trimester placenta and term placenta
Related Product Information for CD276 blocking peptide	May participate in the regulation of T-cell-mediated immune response. May play a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. May be involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. Could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy. Both isoform 1 and isoform 2 appear to be redundant in their ability to modulate CD4 T-cell responses. Isoform 2 is shown to enhance the induction of cytotoxic T-cells and selectively stimulates interferon gamma production in the presence of T-cell receptor signaling.
Other Notes	Small volumes of CD276 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 CD276 purchase	MBS9219398 is a blocking peptide targeting CD276. Also known as CD276 Antibody (C-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD276. It may not necessarily be applicable to this product.

NCBI GI #	74757248
NCBI GeneID	80381
NCBI Accession #	Q5ZPR3.1
UniProt Primary Accession #	Q5ZPR3
UniProt Secondary Accession #	Q6P5Y4; Q6UXI2; Q8NBI8; Q8NC34; Q8NCB6; Q9BXR1
UniProt Related Accession #	Q5ZPR3
NCBI Official Full Name	CD276 antigen
NCBI Official Synonym Full Names	CD276 molecule

NCBI Official Symbol	CD276
NCBI Official Synonym Symbols	B7H3; B7-H3; B7RP-2; 4Ig-B7-H3
UniProt Protein Name	CD276 antigen
UniProt Synonym Protein Names	4Ig-B7-H3; B7 homolog 3; B7-H3; Costimulatory molecule; CD_antigen: CD276
Protein Family	CD276 antigen
UniProt Gene Name	CD276
UniProt Synonym Gene Names	B7H3; B7-H3
UniProt Entry Name	CD276_HUMAN
NCBI Protein Information	CD276 antigen
NCBI Summary for CD276	The protein encoded by this gene belongs to the immunoglobulin superfamily, and thought to participate in the regulation of T-cell-mediated immune response. Studies show that while the transcript of this gene is ubiquitously expressed in normal tissues and solid tumors, the protein is preferentially expressed only in tumor tissues. Additionally, it was observed that the 3' UTR of this transcript contains a target site for miR29 microRNA, and there is an inverse correlation between the expression of this protein and miR29 levels, suggesting regulation of expression of this gene product by miR29. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]
UniProt Comments for CD276	CD276: May participate in the regulation of T-cell-mediated immune response. May play a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. May be involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. Could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy. Both isoform 1 and isoform 2 appear to be redundant in their ability to modulate CD4 T-cell responses. Isoform 2 is shown to enhance the induction of cytotoxic T-cells and selectively stimulates interferon gamma production in the presence of T-cell receptor signaling. Belongs to the immunoglobulin superfamily. BTN/MOG family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 15q23-q24 Molecular Function: protein binding Biological Process: positive regulation of interferon-gamma biosynthetic process; positive regulation of T cell proliferation; T cell activation
Research Articles on CD276	**1.** findings demonstrate that activation-induced B7-H3 expression on synovial monocytes has the potential to inhibit Th1-mediated immune responses and immunomodulatory roles affecting RA pathogenesis.
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