WFDC1 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	WFDC1, Blocking Peptide
Full Product Name	WFDC1 Peptide - middle region
Product Gene Name	WFDC1 blocking peptide
Product Synonym Gene Name	PS20
Sequence	VAEGIPNRGQ CVKQRRQADG RILRHKLYKE YPEGDSKNVA EPGRGQQKHF
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	WFDC1 peptide (MBS3238353) is used for blocking the activity of WFDC1 antibody (MBS3213408)
Molecular Weight	21kDa
OMIM	605322
Product Categories/Family for WFDC1 blocking peptide	Peptide
Applications Tested/Suitable for WFDC1 blocking peptide	Western Blot (WB)
Related Product Information for WFDC1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-WFDC1 Antibody, made Target Description: This gene encodes a member of the WAP-type four disulfide core domain family. The WAP-type four-disulfide core domain, or WAP signature motif, contains eight cysteines forming four disulfide bonds at the core of the protein, and functions as a protease inhibitor in many family members. The encoded protein shares 81% amino acid identity with the rat ps20 protein, which was originally identified as a secreted growth inhibitor. This gene is mapped to chromosome 16q24, an area of frequent loss of heterozygosity in cancers, including prostate, breast and hepatocellular cancers and Wilms' tumor. Owing to its location and a possible growth inhibitory property of its gene product, this gene is suggested to be a tumor suppressor gene.
Other Notes	Small volumes of WFDC1 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 WFDC1 purchase	MBS3238353 is a blocking peptide targeting WFDC1. Also known as WFDC1 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WFDC1. It may not necessarily be applicable to this product.

NCBI GI #	18379353
NCBI GeneID	58189
NCBI Accession #	NP_067020
UniProt Primary Accession #	Q9HC57
UniProt Related Accession #	Q9HC57

GenBank Nucleotide #	NM_021197
NCBI Official Full Name	WAP four-disulfide core domain protein 1 isoform 1
NCBI Official Synonym Full Names	WAP four-disulfide core domain 1
NCBI Official Symbol	WFDC1
NCBI Official Synonym Symbols	PS20
UniProt Protein Name	WAP four-disulfide core domain protein 1
UniProt Synonym Protein Names	Prostate stromal protein ps20; ps20 growth inhibitor
Protein Family	WAP four-disulfide core domain protein
UniProt Gene Name	WFDC1
UniProt Synonym Gene Names	PS20
UniProt Entry Name	WFDC1_HUMAN
NCBI Protein Information	WAP four-disulfide core domain protein 1
NCBI Summary for WFDC1	This gene encodes a member of the WAP-type four disulfide core domain family. The WAP-type four-disulfide core domain contains eight cysteines forming four disulfide bonds at the core of the protein, and functions as a protease inhibitor in many family members. This gene is mapped to chromosome 16q24, an area of frequent loss of heterozygosity in cancers, including prostate, breast and hepatocellular cancers and Wilms' tumor. This gene is downregulated in many cancer types and may be involved in the inhibition of cell proliferation. The encoded protein may also play a role in the susceptibility of certain CD4 memory T cells to human immunodeficiency virus infection. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]
UniProt Comments for WFDC1	WFDC1: Has growth inhibitory activity. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 16q24.3 Cellular Component: extracellular space Molecular Function: serine-type endopeptidase inhibitor activity Biological Process: negative regulation of cell growth; negative regulation of epithelial cell proliferation; negative regulation of inflammatory response; regulation of cell growth; response to drug; response to estradiol stimulus
Research Articles on WFDC1	**1.** Phylogenetic, molecular evolution and structural analyses of the WFDC1/prostate stromal protein 20.
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