UGP2 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	UGP2, Blocking Peptide
Full Product Name	UGP2 Antibody (C-term) Blocking Peptide
Product Gene Name	UGP2 blocking peptide
Product Synonym Names	UTP--glucose-1-phosphate uridylyltransferase; UDP-glucose pyrophosphorylase; UDPGP; UGPase; UGP2; UGP1
Form/Format	Lyophilized with 100% acetonitrile and is supplied as a powder.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of human UGP2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
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	UGP2 peptide (MBS9231513) is used for blocking the activity of UGP2 antibody (MBS9231354)
OMIM	191750
Reconstitution	Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Related Product Information for UGP2 blocking peptide	UGP2 is an important intermediary in mammalian carbohydrate interconversions. It transfers a glucose moiety from glucose-1-phosphate to MgUTP and forms UDP-glucose and MgPPi. In liver and muscle tissue,UDP-glucose is a direct precursor of glycogen; in lactating mammary gland it is converted to UDP-galactose which is then converted to lactose. The eukaryotic enzyme has no significant sequence similarity to the prokaryotic enzyme.
Other Notes	Small volumes of UGP2 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 UGP2 purchase	MBS9231513 is a blocking peptide targeting UGP2. Also known as UGP2 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UGP2. It may not necessarily be applicable to this product.

NCBI GI #	48255968
NCBI GeneID	7360
NCBI Accession #	NP_001001521.1
NCBI Related Accession #	NP_006750.3
UniProt Primary Accession #	Q16851
UniProt Secondary Accession #	P79303; Q91ZJ5; O35156; Q07130
UniProt Related Accession #	Q16851
GenBank Nucleotide #	NM_001001521.1
NCBI Official Full Name	UTP--glucose-1-phosphate uridylyltransferase isoform b
NCBI Official Synonym Full Names	UDP-glucose pyrophosphorylase 2
NCBI Official Symbol	UGP2
NCBI Official Synonym Symbols	UDPG; UGP1; UDPGP; UGPP1; UGPP2; UDPGP2; pHC379

UniProt Protein Name	UTP--glucose-1-phosphate uridylyltransferase
UniProt Synonym Protein Names	UDP-glucose pyrophosphorylase; UDPGP; UGPase
UniProt Gene Name	UGP2
UniProt Synonym Gene Names	UGP1; UDPGP; UGPase
UniProt Entry Name	UGPA_HUMAN
NCBI Protein Information	UTP--glucose-1-phosphate uridylyltransferase
NCBI Summary for UGP2	The enzyme encoded by this gene is an important intermediary in mammalian carbohydrate interconversions. It transfers a glucose moiety from glucose-1-phosphate to MgUTP and forms UDP-glucose and MgPPi. In liver and muscle tissue, UDP-glucose is a direct precursor of glycogen; in lactating mammary gland it is converted to UDP-galactose which is then converted to lactose. The eukaryotic enzyme has no significant sequence similarity to the prokaryotic enzyme. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for UGP2	UGP2: Plays a central role as a glucosyl donor in cellular metabolic pathways. Belongs to the UDPGP type 1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Carbohydrate Metabolism - amino sugar and nucleotide sugar; Carbohydrate Metabolism - galactose; Carbohydrate Metabolism - pentose and glucuronate interconversions; Carbohydrate Metabolism - starch and sucrose; EC 2.7.7.9; Transferase Chromosomal Location of Human Ortholog: 2p14-p13 Cellular Component: cytoplasm; cytosol; nucleus Molecular Function: identical protein binding; protein binding; UTP:glucose-1-phosphate uridylyltransferase activity Biological Process: glycogen biosynthetic process; glycogen metabolic process; UDP-glucuronate biosynthetic process
Research Articles on UGP2	**1.** High UGP2 expression is associated with malignant pancreatic lesions.
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.
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