GALK2 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	GALK2, Blocking Peptide
Full Product Name	GALK2 Antibody (N-term) Blocking Peptide
Product Gene Name	GALK2 blocking peptide
Product Synonym Gene Name	GK2
Product Synonym Names	N-acetylgalactosamine kinase; GalNAc kinase; Galactokinase 2; GALK2; GK2
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human GALK2. 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	GALK2 peptide (MBS9226568) is used for blocking the activity of GALK2 antibody (MBS9204612)
Molecular Weight	49,235 Da
OMIM	137028
Related Product Information for GALK2 blocking peptide	Acts on GalNAc. Also acts as a galactokinase when galactose is present at high concentrations. May be involved in a salvage pathway for the reutilization of free GalNAc derived from the degradation of complex carbohydrates.
Other Notes	Small volumes of GALK2 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 GALK2 purchase	MBS9226568 is a blocking peptide targeting GALK2. Also known as GALK2 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GALK2. It may not necessarily be applicable to this product.

NCBI GI #	399518
NCBI GeneID	2585
NCBI Accession #	Q01415.1
UniProt Primary Accession #	Q01415
UniProt Secondary Accession #	Q7Z4Q4
UniProt Related Accession #	Q01415
NCBI Official Full Name	N-acetylgalactosamine kinase
NCBI Official Synonym Full Names	galactokinase 2
NCBI Official Symbol	GALK2
NCBI Official Synonym Symbols	GK2
UniProt Protein Name	N-acetylgalactosamine kinase

UniProt Synonym Protein Names	GalNAc kinase; Galactokinase 2
Protein Family	N-acetylgalactosamine kinase
UniProt Gene Name	GALK2
UniProt Synonym Gene Names	GK2
UniProt Entry Name	GALK2_HUMAN
NCBI Protein Information	N-acetylgalactosamine kinase
NCBI Summary for GALK2	This gene encodes a highly efficient N-acetylgalactosamine (GalNAc) kinase, which has galactokinase activity when galactose is present at high concentrations. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2014]
UniProt Comments for GALK2	GALK2: Acts on GalNAc. Also acts as a galactokinase when galactose is present at high concentrations. May be involved in a salvage pathway for the reutilization of free GalNAc derived from the degradation of complex carbohydrates. Belongs to the GHMP kinase family. GalK subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.7.1.157; Carbohydrate Metabolism - galactose; Kinase, other; Carbohydrate Metabolism - amino sugar and nucleotide sugar Chromosomal Location of Human Ortholog: 15q21.1-q21.2 Molecular Function: galactokinase activity Biological Process: carbohydrate metabolic process
Research Articles on GALK2	**1.** GALK2 has an ordered ternary complex mechanism in which ATP is the first substrate to bind
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