PYGM Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	PYGM, Blocking Peptide
Full Product Name	PYGM Peptide - C-terminal region
Product Gene Name	PYGM blocking peptide
Product Synonym Gene Name	PYGM;
Sequence	Synthetic peptide located within the following region: TIGTMDGANV EMAEEAGEEN FFIFGMRVED VDKLDQRGYN AQEYYDRIPE
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	PYGM peptide (MBS3244431) is used for blocking the activity of PYGM antibody (MBS3219557)
Molecular Weight	82kDa
OMIM	232600
Product Categories/Family for PYGM blocking peptide	Peptide
Applications Tested/Suitable for PYGM blocking peptide	Western Blot (WB)
Related Product Information for PYGM blocking peptide	This is a synthetic peptide designed for use in combination with anti-PYGM Antibody, made Target Description: This gene encodes a muscle enzyme involved in glycogenolysis. Highly similar enzymes encoded by different genes are found in liver and brain. Mutations in this gene are associated with McArdle disease (myophosphorylase deficiency), a glycogen storage disease of muscle. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of PYGM 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 PYGM purchase	MBS3244431 is a blocking peptide targeting PYGM. Also known as PYGM Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GI #	5032009
NCBI GeneID	5837
NCBI Accession #	NP_005600.1
UniProt Primary Accession #	P11217
UniProt Related Accession #	P11217
GenBank Nucleotide #	NM_005609.4

NCBI Official Full Name	glycogen phosphorylase, muscle form isoform 1
NCBI Official Synonym Full Names	glycogen phosphorylase, muscle associated
NCBI Official Symbol	PYGM
UniProt Protein Name	Glycogen phosphorylase, muscle form
UniProt Synonym Protein Names	Myophosphorylase
Protein Family	Glycogen phosphorylase
UniProt Gene Name	PYGM
UniProt Entry Name	PYGM_HUMAN
NCBI Protein Information	glycogen phosphorylase, muscle form
NCBI Summary for PYGM	This gene encodes a muscle enzyme involved in glycogenolysis. Highly similar enzymes encoded by different genes are found in liver and brain. Mutations in this gene are associated with McArdle disease (myophosphorylase deficiency), a glycogen storage disease of muscle. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Sep 2009]
UniProt Comments for PYGM	PYGM: an important allosteric enzyme in carbohydrate metabolism. Enzymes from different sources differ in their regulatory mechanisms and in their natural substrates. However, all known phosphorylases share catalytic and structural properties. Dimers associate into a tetramer to form the enzymatically active phosphorylase A. Phosphorylation of Ser-14 converts phosphorylase B (unphosphorylated) to phosphorylase A. Protein type: Phosphorylase; Carbohydrate Metabolism - starch and sucrose; Transferase; Endoplasmic reticulum; EC 2.4.1.1 Chromosomal Location of Human Ortholog: 11q12-q13.2 Cellular Component: cytosol Molecular Function: glycogen phosphorylase activity; nucleotide binding; pyridoxal phosphate binding Biological Process: glycogen metabolic process; glycogen catabolic process; carbohydrate metabolic process; glucose metabolic process; pathogenesis Disease: Glycogen Storage Disease V
Research Articles on PYGM	**1.** Results show that PYGM and RAC1 are altered in the dorsolateral prefrontal cortex in chronic schizophrenia and are controlled by NMDA signaling in the rodent cortex and cortical astrocytes suggesting an altered NMDA-dependent glycogenolysis in astrocytes in schizophrenia.
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