Glycogen Phosphorylase, Brain (PYGB) ELISA Kit for Hamster

PRODUCT OVERVIEW

Product Name	Glycogen Phosphorylase, Brain (PYGB), ELISA Kit
Full Product Name	Hamster Glycogen Phosphorylase, Brain ELISA Kit
Product Gene Name	PYGB elisa kit
Species Reactivity	Hamster
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	96,174 Da
Chromosome Location	Chromosome: 3; NC_005102.3 (152941739..152988417). Location: 3q41
3D Structure	ModBase 3D Structure for P53534
Related Product Information for PYGB elisa kit	MBS033734 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Glycogen Phosphorylase, Brain (PYGB) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PYGB. The ELISA analytical biochemical technique of the MBS033734 kit is based on PYGB antibody-PYGB antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PYGB antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PYGB. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of PYGB elisa kit 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.

ADDITIONAL DETAILS

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

NCBI GI #	183986548
NCBI GeneID	25739
NCBI Accession #	AAI66475.1
UniProt Primary Accession #	P53534
UniProt Related Accession #	P53534
NCBI Official Full Name	Pygb protein
NCBI Official Synonym Full Names	phosphorylase, glycogen; brain
NCBI Official Symbol	Pygb
NCBI Official Synonym Symbols	GLYPHOA
UniProt Protein Name	Glycogen phosphorylase, brain form
Protein Family	Glycogen phosphorylase
UniProt Gene Name	Pygb
UniProt Entry Name	PYGB_RAT

NCBI Protein Information	glycogen phosphorylase, brain form; brain glycogen phosphorylase
NCBI Summary for PYGB	brain specific isozyme of glycogen phosphorylase; poorly activated by phosphorylation [RGD, Feb 2006]
UniProt Comments for PYGB	PYGB: Phosphorylase is 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. Belongs to the glycogen phosphorylase family. Protein type: Phosphorylase; Kinase, other; EC 2.4.1.1; Transferase; Carbohydrate Metabolism - starch and sucrose Cellular Component: membrane; axon; cytoplasm Molecular Function: glycogen phosphorylase activity; protein homodimerization activity; drug binding; carbohydrate binding; pyridoxal phosphate binding Biological Process: glycogen metabolic process; glycogen catabolic process; carbohydrate metabolic process
Research Articles on PYGB	**1.** Thus, glycogen is an active fuel for specific structures in normal activated brain, not simply an emergency fuel depot and flux-generated pyruvate greatly exceeded net accumulation of lactate or net consumption of glycogen during activation. T
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