

Anti-BETA-PHOSPHOGLUCOMUTASE (GOAT) Antibody - 100-101-237
Code: 100-101-237

Size: 2 mL

Product Description: Anti-BETA-PHOSPHOGLUCOMUTASE (GOAT) Antibody - 100-101-237

Concentration: 90 mg/mL by Refractometry

PhysicalState: Lyophilized

Label	Unconjugated
Host	Goat
Gene Name	pgmB
Species Reactivity	Lactococcus lacti
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Volume	2.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	goat anti-Beta-Phosphoglucomutase Antibody, Beta PGM antibody, Glucose phosphomutase 1 antibody, Glucose phosphomutase antibody, PGM antibody, pgmB antibody
Application Note	Anti-Beta-Phosphoglucomutase has been assayed against 1.0 µg of b -Phosphoglucomutase [Lactococcus lacti] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) code #605-4302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:3,000 to 1:15,000 of the reconstitution concentration is suggested for this product.
Background	Beta-Phosphoglucomutase catalyzes the interconversion of D-glucose 1-phosphate (G1P) and D-glucose 6-phosphate (G6P), forming beta-D-glucose 1,6-(bis)phosphate (beta-G16P) as an intermediate. The beta-phosphoglucomutase (Beta-PGM) acts on the beta-C1 anomer of G1P. Glucose or lactose are used in preference to maltose, which is only utilized after glucose or lactose has been exhausted. It plays a key role in the regulation of the flow of carbohydrate intermediates in glycolysis and the formation of the sugar nucleotide UDP-glucose. The catalysis proceeds via a phosphoenzyme formed by reaction of an active-site nucleophile with the cofactor glucose 1,6-diphosphate (G1,6-diP). The phosphorylated mutase binds either G1P or G6P and transfers the phosphoryl group to the C6OH or C1OH, respectively.
Purity And Specificity	This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-goat serum, purified and partially purified b-Phosphoglucomutase [Lactococcus lacti]. Cross reactivity against b -Phosphoglucomutase from other sources is unknown.
Assay Dilutions	User Optimized
ELISA	1:5,000 - 1:25,000
Western Blot	1:500 - 1:3,000
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	Beta Phosphoglucomutase [Lactococcus lacti]
Related Products	
	605-4313 Anti-GOAT IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated (Min X Human Serum Proteins) - 605-4313
	B304 NORMAL GOAT SERUM (NGS) - B304

FEMTOMAX-110 Chemiluminescent FemtoMax™ Super Sensitive HRP Substrate for Microwell and/or Membrane (2 component system) - FEMTOMAX-110

MB-070 Blocking Buffer for Fluorescent Western Blotting - MB-070

Related Links

UniProtKB - P71447

<http://www.uniprot.org/uniprot/P71447>

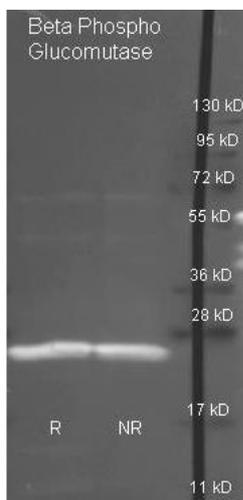
NCBI - <http://www.ncbi.nlm.nih.gov/protein/CAA94734.1>

GeneID - 1114041

Images

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Rockland Goat anti antibody (200-101-237 lot 8180) was used to detect purified Beta Phospho Glucomutase under reducing (R) and non-reducing (NR) conditions. Reduced samples of protein contained 4% BME and were boiled for 5 minutes. Samples of ~1ug of protein per lane were run by SDS-PAGE. Protein was transferred to nitrocellulose and probed with 1:3000 dilution of primary antibody (ON 4 C in MB-070). Detection shown was using Dylight 488 conjugated Donkey anti goat (605-741-125 lot 21094 1:10K in TBS/MB-070 1 hr RT). Images were collected using the BioRad VersaDoc System.



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.