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Anti-BETA-PHOSPHOGLUCOMUTASE (GOAT) Antibody Peroxidase Conjugated

Beta-Phosphoglucomutase Antibody Peroxidase Conjugated
Catalog # ASR4008

Specification

Anti-BETA-PHOSPHOGLUCOMUTASE (GOAT) Antibody Peroxidase Conjugated - Product Information

Host	**Goat**
Conjugate	**Peroxidase (Horseradish)**
Target Species	**Lactococcus lacti**
Clonality	**Polyclonal**
Application	**WB, E, I, LCI**
Application Note	**Anti-Beta-Phosphoglucomutase has been assayed against 1.0 ug of b-Phosphoglucomutase [Lactococcus lacti] in a standard capture ELISA using 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 1:5,000 to 1:20,000 is suggested for this product.**
Physical State	**Lyophilized**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Beta Phosphoglucomutase [Lactococcus lacti]**
Reconstitution Volume	**100 µL**
Reconstitution Buffer	**Restore with deionized water (or equivalent)**
Stabilizer	**10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free**
Preservative	**0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!**

Anti-BETA-PHOSPHOGLUCOMUTASE (GOAT) Antibody Peroxidase Conjugated - Additional Information

Other Names
1114041

Purity
Beta-Phosphoglucomutase is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum as well as purified and partially purified b -Phosphoglucomutase [Lactococcus lacti]. Cross reactivity against b -Phosphoglucomutase from other sources is unknown.

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.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-BETA-PHOSPHOGLUCOMUTASE (GOAT) Antibody Peroxidase Conjugated - Protein Information

Name pgmB {ECO:0000303|PubMed:9084169}

Function
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-C(1) 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.

Cellular Location
Cytoplasm.

Anti-BETA-PHOSPHOGLUCOMUTASE (GOAT) Antibody Peroxidase Conjugated - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-BETA-PHOSPHOGLUCOMUTASE (GOAT) Antibody Peroxidase Conjugated - Images

Anti-BETA-PHOSPHOGLUCOMUTASE (GOAT) Antibody Peroxidase Conjugated - Background

Beta-Phosphoglucomutase catalyzes the interconversion of D-glucose 1-phosphate and D-glucose 6-phosphate, forming beta-D-glucose 1,6-(bis)phosphate as an intermediate. The beta-phosphoglucomutase 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. This enzyme belongs to the family of isomerases, specifically the phosphotransferases (phosphomutases), which transfer phosphate groups within a molecule. The systematic name of this enzyme class is beta-D-glucose 1,6-phosphomutase. This enzyme participates in starch and sucrose metabolism.