

β 磷酸葡萄糖变位酶 β -phosphoglucomutase 抗体

产品货号： mlR18548

英文名称： Beta-phosphoglucomutase

中文名称： β 磷酸葡萄糖变位酶/ β -phosphoglucomutase 抗体

别名： Beta PGM; pgmB; Beta-phosphoglucomutase; Glucose phosphomutase 1; Glucose phosphomutase; PGM.

研究领域： 细胞生物 信号转导 通道蛋白 新陈代谢

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Lactococcus lactis

产品应用： WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500

（石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量： 24kDa

细胞定位： 细胞浆

性状： vLyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from Lactococcus lactis Beta-phosphoglucomutase:21-120/221

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed : PubMed

产品介绍 : Beta-phosphoglucomutase is an enzyme that transfers a phosphoryl group on a glucose monomer from the 1' to the 6' position in the forward direction or the 6' to the 1' position in the reverse. Specifically, it converts Beta-D-glucose-1-phosphate to Beta-D-glucose-6-phosphate. This enzyme participates in both the breakdown and synthesis of glucose. Maltose metabolism in Lactococcus lactis involves the conversion of beta-glucose 1-phosphate to glucose 6-phosphate, a reaction which is reversibly catalysed by a maltose-inducible and glucose-repressible beta-phosphoglucomutase (beta-PGM). Alpha-PGM is expressed constitutively. Beta-phosphoglucomutase is a member of the haloacid dehalogenase superfamily of hydrolase enzymes. The enzyme from Lactococcus lactis has been extensively characterised including a remarkable crystal structure which traps the pentacoordinate transition state.

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-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.

Subcellular Location:

Cytoplasmic

Post-translational modifications:

Autophosphorylated.

Similarity:

Belongs to the HAD-like hydrolase superfamily. CbbY/CbbZ/Gph/YieH family.

Gene ID:

1114041

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.