

Beta-phosphoglucomutase Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57140

Specification

Beta-phosphoglucomutase Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from <i>Lactococcus lactis</i> Beta-phosphoglucomutase
Epitope Specificity	21-120/221
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasmic
SIMILARITY	Belongs to the HAD-like hydrolase superfamily. CbbY/CbbZ/Gph/YieH family. Autophosphorylated.
Post-translational modifications	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Important Note	

Background Descriptions

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.

Beta-phosphoglucomutase Polyclonal Antibody - Additional Information

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Beta-phosphoglucomutase Polyclonal Antibody - Protein Information**Beta-phosphoglucomutase Polyclonal Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Beta-phosphoglucomutase Polyclonal Antibody - Images