bs-18548R **[Primary Antibody]**

Beta-phosphoglucomutase Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: Beta-phosphoglucomutase

Immunogen: KLH conjugated synthetic peptide derived from Lactococcus lactis Beta-phosphoglucomutase: 21-120/221.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: (predicted: Lactococcus lactis)

Predicted MW.: 24 kDa

Subcellular Location: Cytoplasm