

bs-18548R**[Primary Antibody]****Beta-phosphoglucomutase Rabbit pAb****BioSS**
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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