



Anti-BPGM monoclonal antibody (DCABH-10759)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description 2,3-diphosphoglycerate (2,3-DPG) is a small molecule found at high concentrations in red blood cells where it binds to and decreases the oxygen affinity of hemoglobin. This gene encodes a multifunctional enzyme that catalyzes 2,3-DPG synthesis via its synthetase activity, and 2,3-DPG degradation via its phosphatase activity. The enzyme also has phosphoglycerate phosphomutase activity. Deficiency of this enzyme increases the affinity of cells for oxygen. Mutations in this gene result in hemolytic anemia. Multiple alternatively spliced variants, encoding the same protein, have been identified.

Immunogen	A synthetic peptide of human BPGM is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	FC, IP, WB
Size	100 µl
Buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA,
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	BPGM 2,3-bisphosphoglycerate mutase [Homo sapiens]
Official Symbol	BPGM
Synonyms	BPGM; 2,3-bisphosphoglycerate mutase; bisphosphoglycerate mutase; BPG-dependent PGAM; 2,3-diphosphoglycerate mutase; 2,3-bisphosphoglycerate synthase; erythrocyte 2,3-bisphosphoglycerate mutase; 2,3-bisphosphoglycerate mutase, erythrocyte; DPGM;
Entrez Gene ID	669
Protein Refseq	NP_001715
UniProt ID	A0A024R782
Chromosome Location	7q31-q34
Pathway	Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; Glycolysis / Gluconeogenesis, organism-specific biosystem; Glycolysis / Gluconeogenesis, conserved biosystem; Metabolic pathways, organism-specific biosystem; Rapoport-Luebering glycolytic shunt, organism-specific biosystem; Rapoport-Luebering glycolytic shunt, conserved biosystem.
Function	bisphosphoglycerate 2-phosphatase activity; bisphosphoglycerate mutase activity; hydrolase activity; isomerase activity; phosphoglycerate mutase activity;