

KD-Validated Anti-Glucose 6 phosphate isomerase Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1529

Product Information

Application	WB, FC
Primary Accession	P06744
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB5595
Calculated MW	63147
Gene Name	GPI
Aliases	GPI; Glucose-6-Phosphate Isomerase; AMF; NLK; Autocrine Motility Factor; Phosphoglucose Isomerase; Phosphohexose Isomerase; Neuroleukin; EC 5.3.1.9; SA-36; PGI; PHI; Hexose Monophosphate Isomerase; Glucose Phosphate Isomerase; Hexosephosphate Isomerase; Phosphosaccharomutase; Phosphohexomutase; Sperm Antigen-36; Sperm Antigen 36; Oxoisomerase; GNPI; SA36
Immunogen	A synthesized peptide derived from human Glucose 6 phosphate isomerase

Additional Information

Gene ID	2821
Other Names	Glucose-6-phosphate isomerase, GPI, 5.3.1.9, Autocrine motility factor, AMF, Neuroleukin, NLK, Phosphoglucose isomerase, PGI, Phosphohexose isomerase, PHI, Sperm antigen 36, SA-36, GPI {ECO:0000303 PubMed:2387591, ECO:0000312 HGNC:HGNC:4458}

Protein Information

Name	GPI {ECO:0000303 PubMed:2387591, ECO:0000312 HGNC:HGNC:4458}
Function	Isomerase that catalyzes the conversion of alpha-D-glucose-6- phosphate to beta-D-fructose-6-phosphate, the second step in glycolysis, and the reverse reaction in gluconeogenesis, within the cytoplasm (PubMed: 28803808). Also shows C2-epimerase activity, interconverting D-glucose-6-phosphate (G6P) and D-mannose-6-phosphate (M6P) (By similarity). Also displays anomerase activity, interconverting alpha and beta-anomeric forms of G6P, D-fructose-6-phosphate and M6P (By similarity). In addition to its metabolic role, this enzyme functions extracellularly as a cytokine: acts as autocrine motility factor (AMF), a secreted angiogenic factor that enhances endothelial cell motility (PubMed: 11437381). Functions as neuroleukin, a neurotrophic factor supporting the survival of spinal and sensory neurons (PubMed: 11004567 ,

PubMed:[3352745](#)). Released by lectin- stimulated T-cells to induce immunoglobulin secretion (PubMed:[11004567](#), PubMed:[3352745](#)).

Cellular Location

Cytoplasm. Secreted

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