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PGAM1 Rabbit pAb

Catalog # AP98214

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P18669
Other Accession	P18669
Reactivity	Rat
Predicted	Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28804
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PGAM1
Epitope Specificity	101-200/254
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the phosphoglycerate mutase family. BPG-dependent PGAM subfamily.
SUBUNIT	Homodimer.
Post-translational modifications	Acetylated at Lys-253, Lys-253 and Lys-254 under high glucose condition. Acetylation increases catalytic activity. Under glucose restriction SIRT1 levels dramatically increase and it deacetylates the enzyme.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PGAM1 belongs to the phosphoglycerate mutase family, BPG-dependent PGAM subfamily. It is involved in the interconversion of 3- and 2-phosphoglycerate with 2,3-bisphosphoglycerate as the primer of the reaction.

Additional Information

Gene ID	5223
Other Names	HEL-S-35; PGAM-B; PGAMA; 2310050F24Rik; Pgam-1; Pgmut; PGAM1_HUMAN; PGAM1; BPG-dependent PGAM 1; Phosphoglycerate mutase isozyme B (PGAM-B); 5.4.2.11; 5.4.2.4; PGAM1_MOUSE; PGAM1_RAT; phosphoglycerate mutase 1; phosphoglycerate mutase 1 (brain); Phosphoglycerate mutase A, nonmuscle form
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

Protein Information

Name	PGAM1 (HGNC:8888)
Synonyms	PGAMA
Function	Catalyzes the interconversion of 2-phosphoglycerate and 3-phosphoglycerate, a crucial step in glycolysis, by using 2,3-bisphosphoglycerate (PubMed:23653202). Also catalyzes the interconversion of (2R)-2,3-bisphosphoglycerate and (2R)-3-phospho- glyceroyl phosphate (PubMed:23653202).
Tissue Location	Expressed in the liver and brain. Not found in the muscle.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.