

ARG57141
anti-PGAM1 antibody [1G4]Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1G4] recognizes PGAM1
Tested Reactivity	Hu
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	1G4
Isotype	IgG2a, lambda
Target Name	PGAM1
Species	Human
Immunogen	Recombinant fragment around aa. 1-254 of Human PGAM1
Conjugation	Un-conjugated
Alternate Names	PGAMA; EC 3.1.3.13; Phosphoglycerate mutase isozyme B; HEL-S-35; EC 5.4.2.11; PGAM-B; BPG-dependent PGAM 1; Phosphoglycerate mutase 1; EC 5.4.2.4

Application Instructions

Application table	Application	Dilution
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

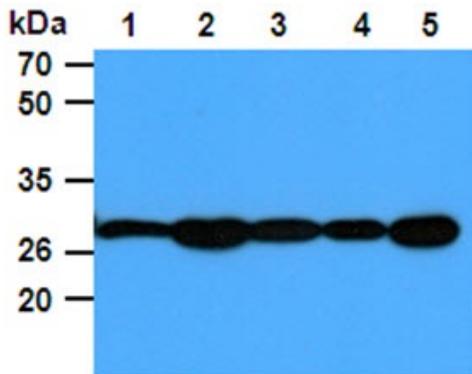
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 5223 Human Swiss-port # P18669 Human
Gene Symbol	PGAM1
Gene Full Name	phosphoglycerate mutase 1 (brain)
Background	Phosphoglyceric acid mutase (EC 2.7.5.3) is widely distributed in mammalian tissues where it catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway (summary by Chen et al., 1974 [PubMed 4811757]).[supplied by OMIM, Nov 2010]
Function	Interconversion of 3- and 2-phosphoglycerate with 2,3-bisphosphoglycerate as the primer of the reaction. Can also catalyze the reaction of EC 5.4.2.4 (synthase) and EC 3.1.3.13 (phosphatase), but with a reduced activity. [UniProt]
Calculated Mw	29 kDa
PTM	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.

Images



ARG57141 anti-PGAM1 antibody [1G4] WB image

Western blot: 40 µg of 1) 293T, 2) Jurkat, 3) Raji, 4) A431, and 5) HeLa cell lysates stained with ARG57141 anti-PGAM1 antibody [1G4] at 1:1000.