ARG63456
anti-PGAM1 + 2 + 4 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes PGAM1 + 2 + 4
Tested Reactivity	Hu, Ms, Rat, Pig
Predict Reactivity	Cow, Dog
Tested Application	WB
Specificity	Please note this antibody is expected to recognize the products of 3 highly similar genes.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	PGAM1 + 2 + 4
Immunogen	C-KAMEAVAAQGKAKK
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	0.05 - 0.15 µg/ml

Application Note: WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

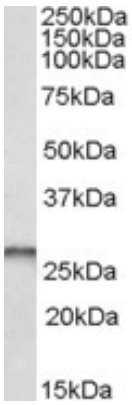
Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 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 or below. 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

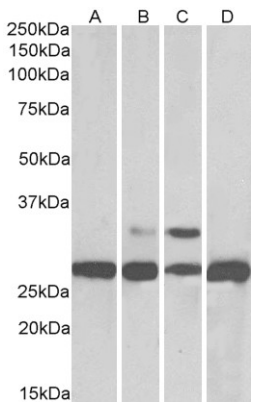
Gene Symbol	PGAM1
Gene Full Name	phosphoglycerate mutase 1 (brain)
Background	Phosphoglyceric acid mutase (EC 2.7.5.3) is widely distributed in mammalian tissues where it catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway (summary by 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]
Research Area	Cancer antibody; Metabolism antibody; Signaling Transduction antibody
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



ARG63456 anti-PGAM1 + 2 + 4 antibody WB image

Western blot: Human liver lysate (RIPA buffer, 35 µg total protein per lane) stained with ARG63456 anti-PGAM1 + 2 + 4 antibody at 0.01 µg/ml dilution.



ARG63456 anti-PGAM1 + 2 + 4 antibody WB image

Western blot: 35 µg of Human (A), Mouse (B), Rat (C) and Pig (D) liver lysates (in RIPA buffer) stained with ARG63456 anti-PGAM1 + 2 + 4 antibody at 0.05 µg/ml dilution and incubated at RT for 1 hour.