

DATASHEET

PGAM5 Rabbit Polyclonal Antibody

CAT. NO. APA16476

KEY FEATURES

| | | | |
|---------------|---|---------------|--------------|
| Target | PGAM5 | Source / Host | Rabbit |
| Reactivity | Human, Mouse, Rat | Clonality | Polyclonal |
| Applications | WB | Conjugation | Unconjugated |
| Form / Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. | Storage | at-20°C |

BACKGROUND

Mitochondrial serine/threonine phosphatase that dephosphorylates various substrates and thus plays a role in different biological processes including cellular senescence or mitophagy . Modulates cellular senescence by regulating mitochondrial dynamics. Mechanistically, participates in mitochondrial fission through dephosphorylating DNM1L/DRP1 . Additionally, dephosphorylates MFN2 in a stress-sensitive manner and consequently protects it from ubiquitination and degradation to promote mitochondrial network formation . Regulates mitophagy independent of PARKIN by interacting with and dephosphorylating FUNDC1, which interacts with LC3 . Regulates anti-oxidative response by forming a tertiary complex with KEAP1 and NRF2 .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

| | |
|----|----------------|
| WB | 1:500 - 1:2000 |
|----|----------------|

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

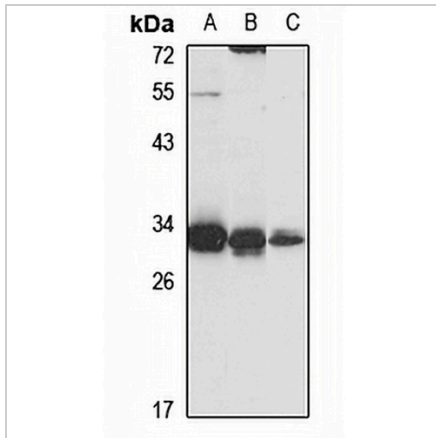
| | |
|-------------------|---|
| Description | Rabbit polyclonal antibody to PGAM5 |
| Specificity | Recognizes endogenous levels of PGAM5 protein |
| Antibody Type | Primary antibody |
| Immunogen | Recombinant fusion protein of human PGAM5. The exact sequence is proprietary. |
| Purification | The antibody was purified by immunogen affinity chromatography. |
| Molecular Weight | Predicted: 28; Observed: 28; 32 kD |
| Form/Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| Alternative Names | Serine/threonine-protein phosphatase PGAM5 mitochondrial; Bcl-XL-binding protein v68; Phosphoglycerate mutase family member 5 |
| Gene Symbol | PGAM5 |
| Entrez Gene | 192111(Human); 72542(Mouse); 288731(Rat) |
| SwissProt | Q96HS1(Human); Q8BX10(Mouse); Q562B5(Rat) |

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA

Western blot analysis of PGAM5 expression in HEK293T (A), mouse brain (B), rat testis (C) whole cell lysates. (Predicted band size: 28; 32 kD; Observed band size: 28; 32 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.