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# **Human PGAM2 antibody**

Catalog Number: ATGA0399

# **PRODUCT INFORMATION**

## Catalog number

ATGA0399

#### Clone No.

AT5A7

# **Product type**

Monoclonal Antibody

#### UnitProt No.

P15259

#### **NCBI Accession No.**

NP 000281

#### **Alternative Names**

Phosphoglycerate mutase 2, GSD10, PGAM-M, PGAMM

# **PRODUCT SPECIFICATION**

## **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human PGAM2 (1-253aa) purified from E. coli

### Isotype

IgG2b kappa

## **Purification Note**

By protein-A affinity chromatography

# **Application**

ELISA, WB, ICC/IF

#### Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

#### **Storage**



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

## **Description**

Phosphoglycerate mutase (PGAM) catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. Since both 3-PGA and 2-PGA are allosteric regulators of the pentose phosphate pathway (PPP) and glycine and serine synthesis pathways, respectively, PGAM2 may contribute to the biosynthesis of amino acids, 5-carbon sugar, and nucleotides precursors. The PGAM is a dimeric enzyme containing, in different tissues, different proportions of a slow-migrating muscle (MM) isozyme, a fast-migrating brain (BB) isozyme, and a hybrid form (MB). Mutations in this gene cause muscle phosphoglycerate mutase deficiency, also known as glycogen storage disease X. PGAM2 is one of two PGAM subunits found in humans and is predominantly expressed in adult muscle.

#### **General References**

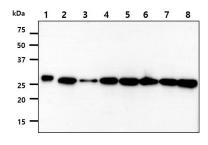
Tsujino S., et al. (1986) The Journal of biological chemistry. 264(26): 15334-7.

Xu Y., et al. (2014) Cancer research. 74(13): 3630-42.

Tsujino S., et al. (1993) American journal of human genetics. 52(3): 472-7.

## **DATA**

## Western blot analysis (WB)



The recombinant protein (50ng) and cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with antihuman PGAM2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombnant protein (50ng)

Lane 2. : HeLa cell lysate Lane 3. : HepG2 cell lysate Lane 4. : 293T cell lysate Lane 5. : Jurkat cell lysate Lane 6. : NIH3T3 cell lysate Lane 7. : A549 cell lysate Lane 8. : MCF7 cell lysate

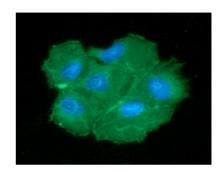
Immunocytochemistry/Immunofluorescence (ICC/IF)



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ICC/IF analysis of PGAM2 in Hep3B cells. The cell was stained with ATGA0399 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

