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# PGM1 Rabbit mAb

Catalog # AP75901

## Product Information

| | |
|---|---|
| **Application** | WB, FC, IP |
| **Primary Accession** | P36871 |
| **Reactivity** | Rat, Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Monoclonal Antibody |
| **Isotype** | IgG |
| **Conjugate** | Unconjugated |
| **Purification** | Affinity Purified |
| **Calculated MW** | 61449 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 5236 |
| **Other Names** | PGM1 |
| **Dilution** | WB~~1:1000-1:5000 FC~~1:50-1:100 IP~~1:20-1:50 |
| **Format** | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

## Protein Information

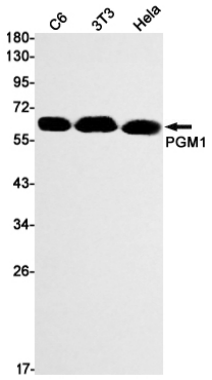
| | |
|---|---|
| **Name** | PGM1 |
| **Function** | Catalyzes the reversible isomerization of alpha-D-glucose 1- phosphate to alpha-D-glucose 6-phosphate (PubMed:15378030, PubMed:25288802). The mechanism proceeds via the intermediate compound alpha-D-glucose 1,6-bisphosphate (Probable) (PubMed:25288802). This enzyme participates in both the breakdown and synthesis of glucose (PubMed:17924679, PubMed:25288802). |
| **Cellular Location** | [Isoform 1]: Cytoplasm. |

## Background

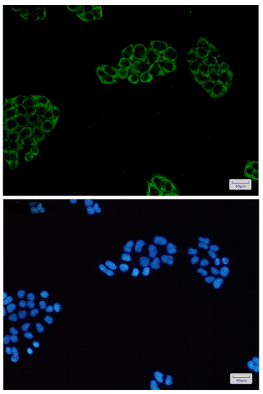
The protein encoded by this gene is an isozyme of phosphoglucomutase (PGM) and belongs to the phosphohexose mutase family. There are several PGM isozymes, which are encoded by different genes and

catalyze the transfer of phosphate between the 1 and 6 positions of glucose. In most cell types, this PGM isozyme is predominant, representing about 90% of total PGM activity. In red cells, PGM2 is a major isozyme. This gene is highly polymorphic. Mutations in this gene cause glycogen storage disease type 14. Alternativley spliced transcript variants encoding different isoforms have been identified in this gene.

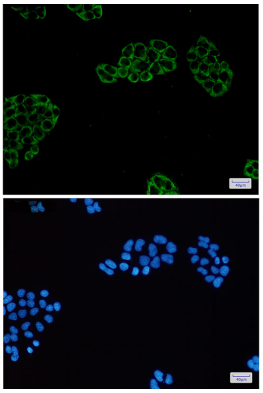
## Images

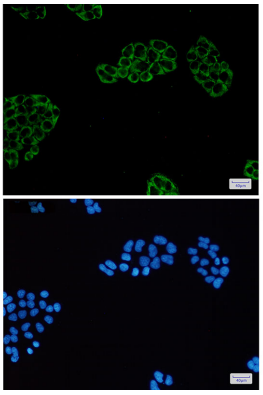



Western blot analysis of PGM1 in C6, 3T3, Hela lysates using PGM1 antibody.



Immunocytochemistry analysis of PGM1(green) in Hela using PGM1 antibody,and DAPI(blue)





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