For Research Use Only

PGAM2 Polyclonal antibody

Catalog Number:15550-1-AP 8 Publications

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Basic Information

Catalog Number:
15550-1-AP

Size:
300 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7908

GenBank Accession Number:
BC001904

GeneID (NCBI):
5224

UNIPROT ID:
P15259

Full Name:
phosphoglycerate mutase 2 (muscle)

Calculated MW:
29 kDa

Observed MW:
29 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:50-1:500

Applications

Tested Applications:
IHC, WB, ELISA

Cited Applications:
WB, IP, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse heart tissue, HeLa cells, mouse skeletal muscle tissue, rat heart tisssue, rat skeletal muscle tissue

IHC : human breast cancer tissue, mouse skeletal muscle tissue, mouse heart tissue, mouse brain tissue

Background Information

Phosphoglycerate mutase (PGAM), an important enzyme in the glycolytic pathway, catalyzes the transfer of a phosphate group between the 2 and the 3 positions of glyceric acid. The muscle-specific isoform (type M, PGAM2) of phosphoglycerate mutase (PGAM) is a housekeeping enzyme and it catalyzes the conversion of 3-phosphoglycerate into 2-phosphoglycerate in the glycolysis process to release energy. It is encoded by the Pgam2 gene. In addition, it is demonstrated that PGAM2 locates both in cytoplasm and nuclei, and takes part in the glycometabolism process of cytoplasm and nuclei(PMID: 18499067). Defects in PGAM2 are the cause of glycogen storage disease type 10 (GSD10). This antibody may also recognize PGAM1 and PGAM4 due to the high homology.

Notable Publications

Author	Pubmed ID	Journal	Application
Liangliang Fu	28345649	Sci Rep	WB
Zhenkang Chen	36598990	Sci Adv	WB
Yueshuai Guo	31394311	J Proteomics	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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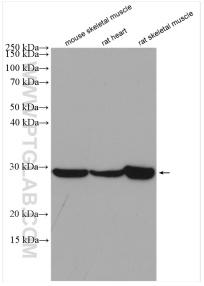
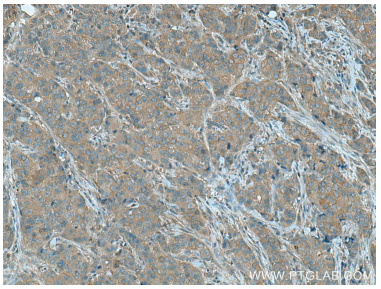
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15550-1-AP (PGAM2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 15550-1-AP (PGAM2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).