



Product datasheet

Anti-PGAM5 antibody ab126534

★★★★★ [2 Abreviews](#) [26 References](#) [6 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-PGAM5 antibody |
| Description | Rabbit polyclonal to PGAM5 |
| Host species | Rabbit |
| Tested applications | Suitable for: ICC/IF, WB, IHC-P |
| Species reactivity | Reacts with: Human |
| Immunogen | <p>Recombinant fragment corresponding to Human PGAM5 aa 61-146. Sequence:</p> <p>NWDRREPLSLINVRKRNVESGEEELASKLDHYKAKATRHI FLIRHSQYHV DGSLEKDRTLTPLGREQAELTGLRLASLGLKFNKIV</p> <p>Database link: Q96HS1</p> <p> Run BLAST with  Run BLAST with</p> |
| Positive control | ICC: MCF-7 whole cells; WB: RT-4 whole cell lysates transfected with siRNA; IHC-P: Human liver, testis, tonsil and colon tissue. |
| General notes | <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p> |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| Storage buffer | <p>pH: 7.20</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS</p> |
| Purity | Immunogen affinity purified |

| | |
|------------------|------------|
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

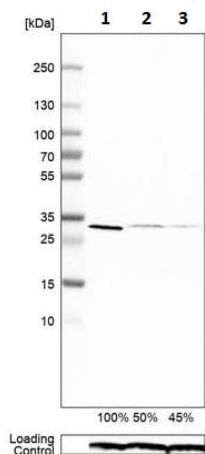
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab126534 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| ICC/IF | | Use a concentration of 0.25 - 2 µg/ml. |
| WB | ★★★★★ (2) | Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 32 kDa. |
| IHC-P | | 1/200 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

Target

| | |
|------------------------------|--|
| Function | Displays phosphatase activity for serine/threonine residues, and, dephosphorylates and activates MAP3K5 kinase. Has apparently no phosphoglycerate mutase activity. May be regulator of mitochondrial dynamics. Substrate for a KEAP1-dependent ubiquitin ligase complex. Contributes to the repression of NFE2L2-dependent gene expression. |
| Sequence similarities | Belongs to the phosphoglycerate mutase family. BPG-dependent PGAM subfamily. |
| Domain | According to PubMed:18387606, may contain a non-cleaved N-terminal mitochondrial targeting sequence that targets PGAM5 to the cytosolic side of the outer mitochondrial membrane, instead of a N-terminal transmembrane. |
| Cellular localization | Mitochondrion. Mitochondrion outer membrane. Membrane. Isoform 2 overexpression results in the formation of disconnected punctuate mitochondria distributed throughout the cytoplasm. Isoform 1 overexpression results in the clustering of mitochondria around the nucleus. |

Images



Western blot - Anti-PGAM5 antibody (ab126534)

All lanes : Anti-PGAM5 antibody (ab126534) at 0.4 $\mu\text{g/ml}$

Lane 1 : Control siRNA transfected into RT4 (Human urinary bladder cancer cell line) whole cell lysate

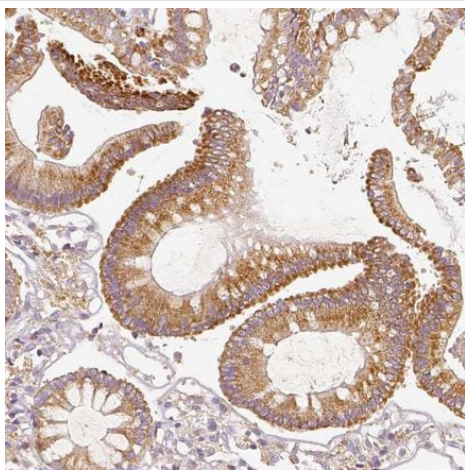
Lane 2 : siRNA probe #1 transfected into RT4 whole cell lysate

Lane 3 : siRNA probe #2 transfected into RT4 whole cell lysate

Predicted band size: 32 kDa

Loading control: Anti-PPIB

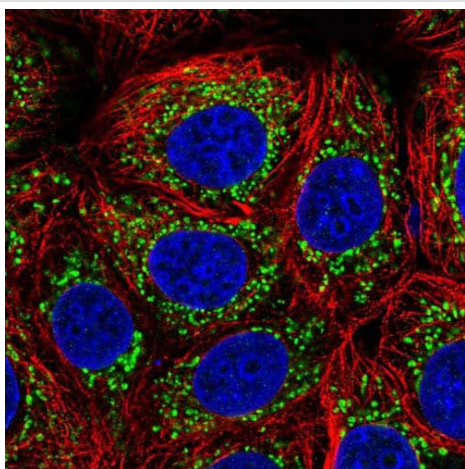
Genetic validation in WB by siRNA knockdown.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGAM5 antibody (ab126534)

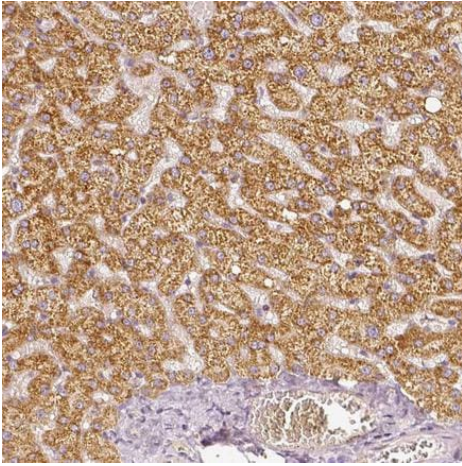
Immunohistochemical analysis of human colon tissue labeling PGAM5 in the granular cytoplasm of glandular cells with ab126534 at a 1/200 dilution.

Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-PGAM5 antibody (ab126534)

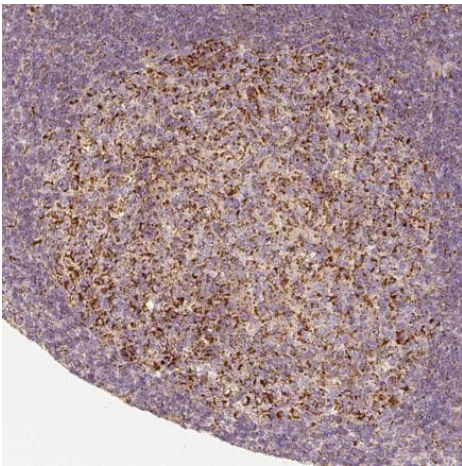
Immunocytochemical analysis of MCF7 (Human breast adenocarcinoma cell line) whole cells labeling PGAM5 in the mitochondria with ab126534 2 $\mu\text{g/ml}$.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGAM5 antibody (ab126534)

Immunohistochemical analysis of human liver tissue labeling PGAM5 in the granular cytoplasm of hepatocytes with ab126534 at a 1/200 dilution.

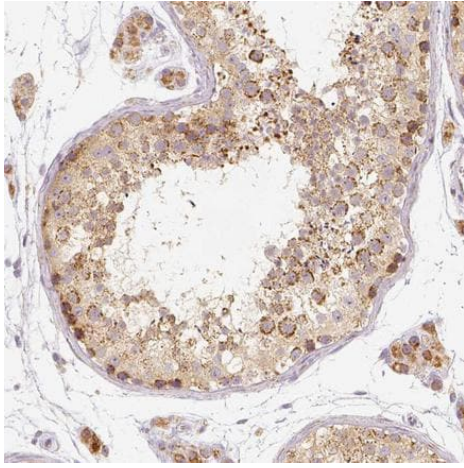
Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGAM5 antibody (ab126534)

Immunohistochemical analysis of human tonsil tissue labeling PGAM5 in the granular cytoplasm of germinal center cells with ab126534 at a 1/200 dilution.

Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGAM5 antibody (ab126534)

Immunohistochemical analysis of human testis tissue labeling PGAM5 in the granular cytoplasm of cells in seminiferous ducts with ab126534 at a 1/200 dilution.

Performed heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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