

Datasheet for ABIN2781770
anti-G6PC antibody (N-Term)[Go to Product page](#)

6 Images

1 Publication

Overview

| | |
|----------------------|---|
| Quantity: | 100 µL |
| Target: | G6PC |
| Binding Specificity: | N-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This G6PC antibody is un-conjugated |
| Application: | Immunohistochemistry (IHC), Western Blotting (WB) |

Product Details

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| Immunogen: | The immunogen is a synthetic peptide directed towards the N terminal region of human G6PC |
| Sequence: | NLVFKWILFG QRPYWWVLDL DYYSNTSVPL IKQFPVTCET GPGSPSGHAM |
| Predicted Reactivity: | Cow: 93%, Dog: 100%, Guinea Pig: 93%, Horse: 93%, Human: 100%, Mouse: 86%, Pig: 100%, Rabbit: 93%, Rat: 93%, Sheep: 100% |
| Characteristics: | This is a rabbit polyclonal antibody against G6PC. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification: | Affinity Purified |

Target Details

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| Target: | G6PC |
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Target Details

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| Alternative Name: | G6PC (G6PC Products) |
| Background: | <p>G6PC hydrolyzes glucose-6-phosphate to glucose in the endoplasmic reticulum. It forms with the glucose-6-phosphate transporter (SLC37A4/G6PT) the complex responsible for glucose production through glycogenolysis and gluconeogenesis. Hence, it is the key enzyme in homeostatic regulation of blood glucose levels. Glucose-6-phosphatase is an integral membrane protein of the endoplasmic reticulum that catalyzes the hydrolysis of D-glucose 6-phosphate to D-glucose and orthophosphate. It is a key enzyme in glucose homeostasis, functioning in gluconeogenesis and glycogenolysis. Defects in the enzyme cause glycogen storage disease type I (von Gierke disease). Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p> <p>Alias Symbols: G6PT, GSD1a, MGC163350, GSD1, G6PC1</p> <p>Protein Interaction Partner: NSL1, SNX13, CDH16, FOXO1,</p> <p>Protein Size: 357</p> |
| Molecular Weight: | 40 kDa |
| Gene ID: | 2538 |
| NCBI Accession: | NM_000151 , NP_000142 |
| UniProt: | P35575 |
| Pathways: | Carbohydrate Homeostasis , Cellular Glucan Metabolic Process |

Application Details

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| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment: | Antigen size: 357 AA |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Concentration: | Lot specific |
| Buffer: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and may contain up to 2 % sucrose. |
| Preservative: | Sodium azide |

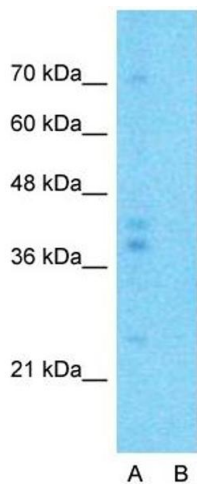
Handling

| | |
|--------------------|---|
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

Publications

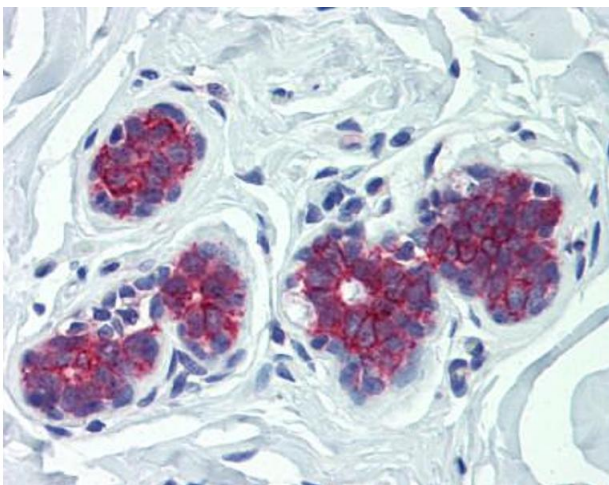
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| Product cited in: | Spellman, Ahmed, Dubach, Gardiner: "Expression of trisomic proteins in Down syndrome model systems." in: Gene , Vol. 512, Issue 2, pp. 219-25, (2012) (PubMed). |
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Images



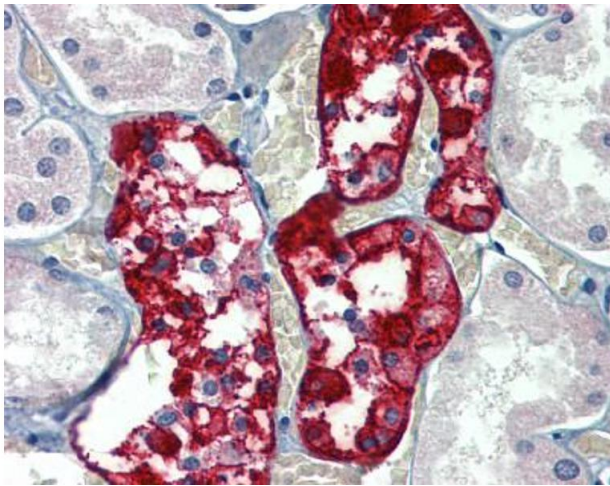
Western Blotting

Image 1. Host: Rabbit Target Name: G6PC Sample Type: Human Fetal Lung Lane A: Primary Antibody Lane B: Primary Antibody + Blocking Peptide Primary Antibody Concentration: 1ug/ml Peptide Concentration: 5ug/ml Lysate Quantity: 25ug/lane/lane Gel Concentration: 0.12



Immunohistochemistry

Image 2.



Immunohistochemistry

Image 3.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN2781770.