

## Rabbit anti-Human G6PD Polyclonal Antibody | anti-G6PD antibody

G6PD Antibody (Center)

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                |
|-----------|--------|------------|-----------------------------------------------------------------------------|
| AAA289840 | Rabbit | Human      | Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot |

### PRODUCT SYNONYMS

G6PD; Polyclonal Antibody; G6PD Antibody (Center); Glucose-6-phosphate 1-dehydrogenase; anti-G6PD antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                           |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                    |
| Reactivity                                     | Human                                                                                                                                                                                     |
| Clonality                                      | Polyclonal                                                                                                                                                                                |
| Isotype                                        | Rabbit Ig                                                                                                                                                                                 |
| Specificity                                    | This G6PD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 297-326 amino acids from the Central region of human G6PD.                         |
| Purity/Purification                            | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                 |
| Form/Format                                    | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Concentration                                  | Vial Concentration: 2 (varies by lot)                                                                                                                                                     |
| Sequence Positions                             | 297-326                                                                                                                                                                                   |
| Sequence Length                                | 545                                                                                                                                                                                       |
| Applicable Applications for anti-G6PD antibody | FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                           |
| Antigen Type                                   | Synthetic Peptide                                                                                                                                                                         |
| Antigen Source                                 | HUMAN                                                                                                                                                                                     |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                    |

### IMAGES



#### FCM/FACS (Flow Cytometry)

G6PD Antibody (Center) flow cytometric analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



#### IHC (Immunohistochemistry)

G6PD Antibody (Center) IHC analysis in formalin fixed and paraffin embedded testis followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the G6PD Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



#### WB (Western Blot)

Western blot analysis of G6PD Antibody (Center) in K562, MCF-7 cell line lysates (35ug/lane). G6PD (arrow) was detected using the purified Pab.

### ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-G6PD antibody</b> | G6PD encodes glucose-6-phosphate dehydrogenase. This protein is a cytosolic enzyme encoded by a housekeeping X-linked gene whose main function is to produce NADPH, a key electron donor in the defense against oxidizing agents and in reductive biosynthetic reactions. G6PD is remarkable for its genetic diversity. Many variants of G6PD, mostly produced from missense mutations, have been described with wide ranging levels of enzyme activity and associated clinical symptoms. G6PD deficiency may cause neonatal jaundice, acute hemolysis, or severe chronic non-spherocytic hemolytic anemia. |
| <b>Product Categories/Family for anti-G6PD antibody</b>   | <a href="#">Cancer</a> ; <a href="#">Cardiovascular</a> ; <a href="#">Metabolism</a> ; <a href="#">Signal transduction</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>References</b>                                         | Louicharoen, C., et al. Science 326(5959):1546-1549(2009)<br>Zhong, D.N., et al. Zhongguo Dang Dai Er Ke Za Zhi 11(12):970-972(2009)<br>Tiono, A.B., et al. Am. J. Trop. Med. Hyg. 81(6):969-978(2009)                                                                                                                                                                                                                                                                                                                                                                                                      |

### NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | 109389365                                                                                                                                                                                             |
| <b>NCBI GeneID</b>                      | 2539                                                                                                                                                                                                  |
| <b>NCBI Accession #</b>                 | <a href="#">NP_000393.4</a> ; <a href="#">NP_001035810.1</a>                                                                                                                                          |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_000402.4</a>                                                                                                                                                                           |
| <b>UniProt Accession #</b>              | <a href="#">P11413</a> ; <a href="#">Q16000</a> ; <a href="#">Q16765</a> ; <a href="#">Q8IU70</a> ; <a href="#">Q8IU88</a> ; <a href="#">Q8IUA6</a> ; <a href="#">Q96PQ2</a> ; <a href="#">D3DWX9</a> |
| <b>Molecular Weight</b>                 | 59257                                                                                                                                                                                                 |
| <b>NCBI Official Full Name</b>          | glucose-6-phosphate 1-dehydrogenase isoform a                                                                                                                                                         |
| <b>NCBI Official Synonym Full Names</b> | glucose-6-phosphate dehydrogenase                                                                                                                                                                     |
| <b>NCBI Official Symbol</b>             | G6PD                                                                                                                                                                                                  |
| <b>NCBI Official Synonym Symbols</b>    | G6PD1                                                                                                                                                                                                 |
| <b>NCBI Protein Information</b>         | glucose-6-phosphate 1-dehydrogenase                                                                                                                                                                   |
| <b>UniProt Protein Name</b>             | Glucose-6-phosphate 1-dehydrogenase                                                                                                                                                                   |
| <b>UniProt Gene Name</b>                | <b>G6PD</b>                                                                                                                                                                                           |
| <b>UniProt Synonym Gene Names</b>       | G6PD                                                                                                                                                                                                  |
| <b>UniProt Entry Name</b>               | G6PD_HUMAN                                                                                                                                                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/g6pd-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/289840>