# ARG64218
# anti-G6PD antibody

Package: 100 µg
Store at: -20°C

## Summary

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| Product Description | Goat Polyclonal antibody recognizes G6PD |
| Tested Reactivity | Hu |
| Predict Reactivity | Ms, Rat, Dog |
| Tested Application | WB |
| Specificity | This antibody is expected to recognise both reported isoforms (NP_000393.4 and NP_001035810.1). |
| Host | Goat |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | G6PD |
| Species | Human |
| Immunogen | C-KPASTNSDDVRDEK |
| Conjugation | Un-conjugated |
| Alternate Names | G6PD1; G6PD; EC 1.1.1.49; Glucose-6-phosphate 1-dehydrogenase |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| WB | 1 - 3 µg/ml |

Application Note

WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

## Properties

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| Form | Liquid |
| Purification | Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. |
| Buffer | Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 0.5% BSA |
| Concentration | 0.5 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

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| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

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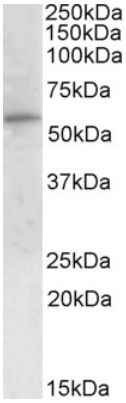
| Database links | GeneID: 2539 Human<br><br>Swiss-port # P11413 Human |
| Background | This gene encodes glucose-6-phosphate dehydrogenase. This protein is a cytosolic enzyme encoded by a housekeeping X-linked gene whose main function is to produce NADPH, a key electron donor in the defense against 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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |
| Research Area | Cancer antibody; Cell Biology and Cellular Response antibody; Metabolism antibody; Signaling Transduction antibody |
| Calculated Mw | 59 kDa |
| PTM | Acetylated by ELP3 at Lys-403; acetylation inhibits its homodimerization and enzyme activity. Deacetylated by SIRT2 at Lys-403; deacetylation stimulates its enzyme activity. |

## Images




ARG64218 anti-G6PD antibody WB image

Western Blot: Peripheral Blood Mononucleocytes lysate (35 µg protein in RIPA buffer) stained with ARG64218 anti-G6PD (aa 305 - 318) antibody at 1 µg/ml dilution.