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G6PD

Reactivity: Human Mouse Rat

Tested applications:WB IHC

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200

Calculated MW:59kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human G6PD

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

G6PD; G6PD1;

Catalog #:A1537

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:2539

Isotype: IgG

Swiss Prot:P11413

Purity: Affinity purification

For research use only.

Background:

Glucose-6-phosphate dehydrogenase (G6PD) catalyses the first and rate-limiting step of the pentose phosphate pathway (1). The NADPH generated from this reaction is essential to protect cells from oxidative stress (1). Recent studies have shown that p53 interacts with G6PD and inhibits its activity, therefore suppressing glucose consumption through the pentose phosphate pathway (2). In cancer cells with p53 mutations, the increased glucose consumption is directed towards increased biosynthesis, which is critical for cancer cell proliferation (2).

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