

GAPDH

Reactivity:Human Mouse Rat

Tested applications:WB IHC IP FC

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200 IP 1:20 - 1:50 FC 1:10 - 1:50

Calculated MW:36 kDa

Observed MW:Refer to figures

Immunogen:

Recombinant protein of human GAPDH

Storage Buffer:

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

Synonym:

G3PD; GAPD; HEL-S-162eP;

Catalog #:A10868

Antibody Type:

Monoclonal Antibody

Species:Rabbit

Gene ID:2597

Isotype:IgG

Swiss Prot:P04406

Purity:Affinity purification

For research use only.

Background:

This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The product of this gene catalyzes an important energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD). The encoded protein has additionally been identified to have uracil DNA glycosylase activity in the nucleus. Also, this protein contains a peptide that has antimicrobial activity against *E. coli*, *P. aeruginosa*, and *C. albicans*. Studies of a similar protein in mouse have assigned a variety of additional functions including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferrin receptor on the cell surface of macrophage. Many pseudogenes similar to this locus are present in the human genome. Alternative splicing results in multiple transcript variants.

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