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GAPDH

Reactivity: Human Mouse Rat

Tested applications:WB IHC IF

Recommended Dilution:WB 1:1000 - 1:5000 IHC 1:200 - 1:500 IF 1:100 - 1:200

Calculated MW:36kDa

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:

GAPDH;G3PD;GAPD;MGC88685 ;

Catalog #:AC002

Antibody Type:

Monoclonal Antibody

Species: Mouse

Gene ID:2597

Isotype: IgG

Swiss Prot:P04406

Purity: Affinity purification

For research use only.

Background:

Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the phosphorylation of glyceraldehyde-3-phosphate during glycolysis. GAPDH participates in nuclear events including transcription, binding RNA, RNA transportation, DNA replication, DNA repair and apoptosis. Being stably and constitutively expressed at high levels in most tissues and cells, GAPDH is considered a housekeeping protein. It was widely used as a control for RT-PCR and also loading control in electrophoresis and Western blotting. GAPDH is normally expressed in cellular cytoplasm or membrane, but can occasionally translocated to the nucleus post modification such as S-nitrosylation. This antibody is a mouse monoclonal antibody raised against full length GAPDH of human origin. It can recognize the 36kda GAPDH protein in most cells/tissues. Please note that some physiological factors, such as hypoxia and diabetes, increase GAPDH expression in certain cell types.

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