

# GAPDH Monoclonal Antibody

Catalog No: tcba13638



## Available Sizes

**Size:** 50ul

**Size:** 100ul

**Size:** 200ul



## Specifications

**Application:**

WB

**Research Area:**

Epigenetics & Nuclear Signaling,Epigenetic Modifications,Epigenetic Modifications\_Methylation,Epigenetics & Nuclear Signaling,Epigenetic Modifications,Epigenetic Modifications\_Methylation,

**Species Reactivity:**

Human,Mouse,Rat

**Host Species:**

Mouse

**Immunogen / Amino acids:**

Recombinant protein of human GAPDH

**Conjugation:**

Unconjugated

**Clonality:**

Monoclonal

**Isotype:**

IgG

**Storage Buffer:**

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

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**Recommended Dilution:**

WB 1:5000 - 1:20000

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**Storage Instruction:**

Store at -20°C. Avoid freeze / thaw cycles.

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**Alternative Names:**

G3PD;GAPD;HEL-S-162eP

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**SwissProt:**

P04406

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**Gene ID:**

2597 (human);

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**Calculated Molecular Weight:**

31kDa/36kDa

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**Purification:**

Affinity purification

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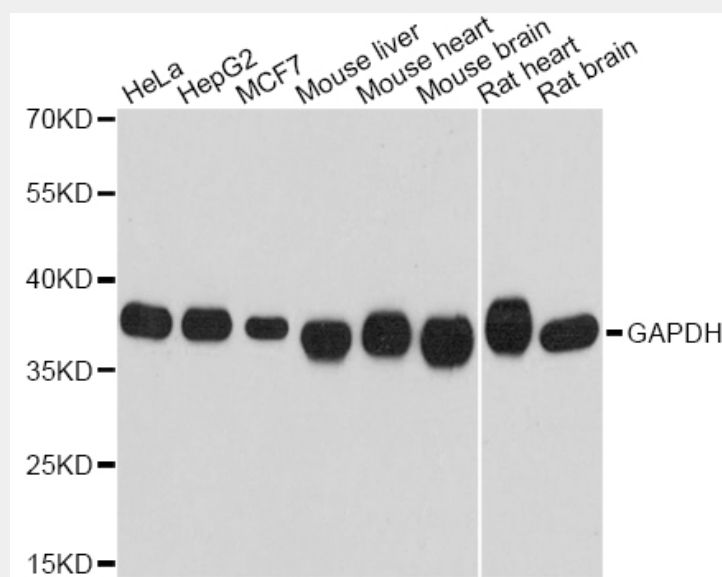
**Cellular Location:**

Cytoplasm,Membrane,Nucleus,cytoskeleton,cytosol,perinuclear region,

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**Product Description**

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.



Western blot analysis of extracts of various cell lines, using GAPDH antibody at 1:10000 dilution.  
Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit.  
Exposure time: 1s.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!