

# GAPDH Mouse mAb

Catalog No.: AC002 **696 Publications**

## Basic Information

### Observed MW

36kDa/

### Calculated MW

36kDa

### Category

Loading control antibody

### Applications

ELISA,WB,IHC-P,IF/ICC

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

AMC0062R

## 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.

## Recommended Dilutions

WB	1:5000 - 1:50000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

## Immunogen Information

### Gene ID

2597

### Swiss Prot

P04406

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-335 of human GAPDH (P04406).

### Synonyms

G3PD; GAPD; HEL-S-162eP; GAPDH

## Contact

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## Product Information

### Source

Mouse

### Isotype

IgG2b,Kappa

### Purification

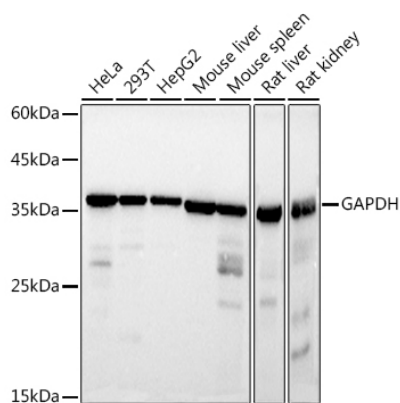
Affinity purification

### Storage

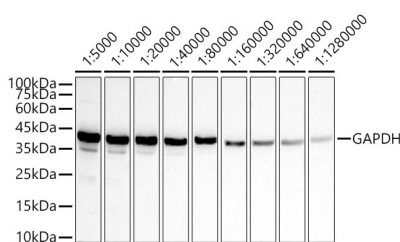
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

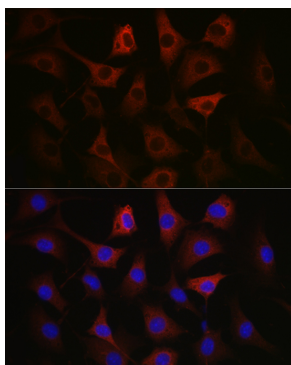
## Validation Data



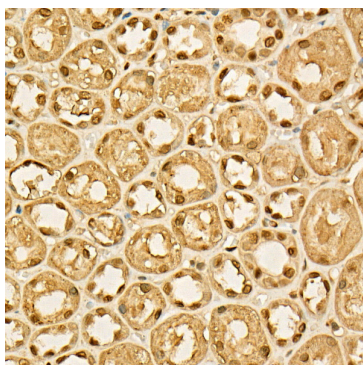
Western blot analysis of various lysates using GAPDH Mouse mAb (AC002) at 1:10000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 1s.



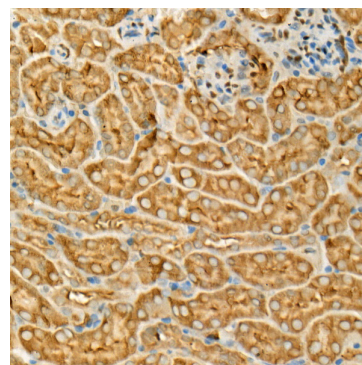
Western blot analysis of lysates from HeLa cells using GAPDH Mouse mAb (AC002) at 1:5000-1:1280000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020)  
 Exposure time: 20 s.



Immunofluorescence analysis of NIH/3T3 cells using GAPDH Mouse mAb (AC002) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded Human kidney using GAPDH Mouse mAb (AC002) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using GAPDH Mouse mAb (AC002) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.