

# GAPDH Mouse mAb (High Dilution)

Catalog No.: AC033 **181 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

AMC0062

## Recommended Dilutions

<b>WB</b>	1:10000 - 1:760000
<b>IHC-P</b>	1:100 - 1:500
<b>IF/ICC</b>	1:50 - 1:200

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## 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.

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
2597	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

## Product Information

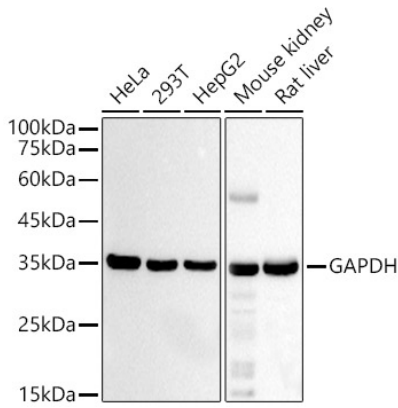
<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Mouse	IgG2b,Kappa	Affinity purification

### 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(High Dilution) antibody (AC033) at 1:640000 dilution.

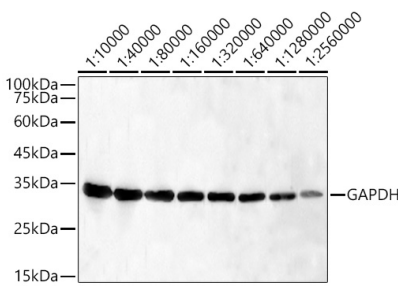
Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30s.



Western blot analysis of extracts of HeLa cells, using GAPDH antibody (AC033) at 1:10000-1:2560000 different dilution.

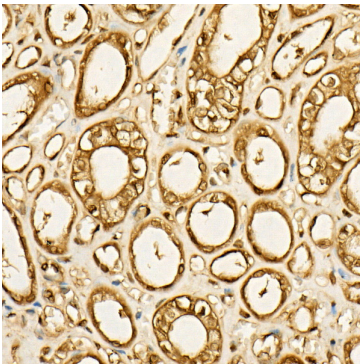
Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

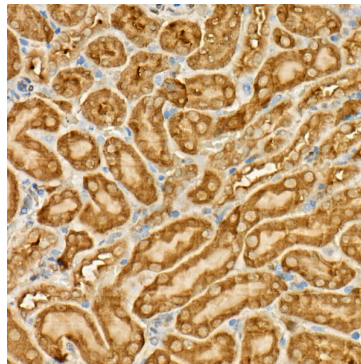
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

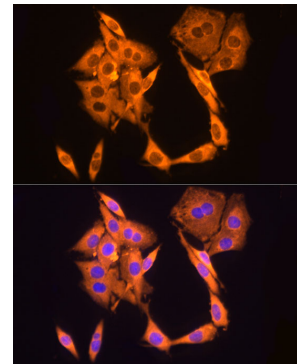
Exposure time: 20s.



Immunohistochemistry analysis of paraffin-embedded human kidney using GAPDH Mouse mAb (High Dilution) (AC033) at dilution of 1:500 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded mouse kidney using GAPDH Mouse mAb (High Dilution) (AC033) at dilution of 1:500 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunofluorescence analysis of PC-12 cells using GAPDH Mouse mAb (High Dilution) (AC033) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.