

AC033

Leader in Biomolecular Solutions for Life Science



GAPDH Mouse mAb (High Dilution)

Catalog No.: AC033

295 Publications

Basic Information

Observed MW

36kDa

Calculated MW

36kDa

Category

Monoclonal Antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human,Mouse,Rat

CloneNo number

AMC0062

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.

Note : Due to the high antibody titer, it is advisable to be diluted before use. Please dilute 5µL of the antibody solution with 45µL of PBS solution, containing 50% glycerol. The diluted antibody can be stored at -20°C.

Recommended Dilutions

WB 1:100000 - 1:660000**IHC-P** 1:100 - 1:500**IF/ICC** 1:50 - 1:200

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

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

Product Information

Source

Mouse

Isotype

IgG2b,Kappa

Purification

Affinity purification

Storage

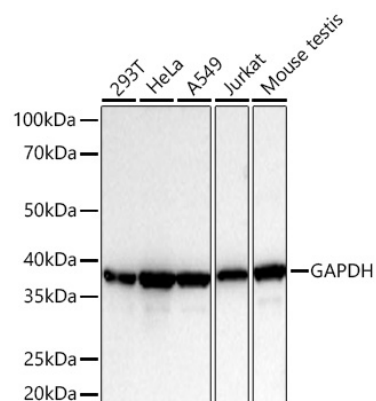
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% sodium azide, 50% glycerol, pH7.3.

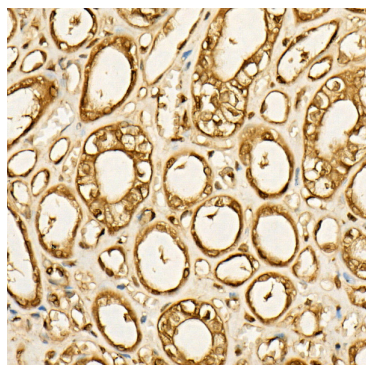
Contact

www.abclonal.com

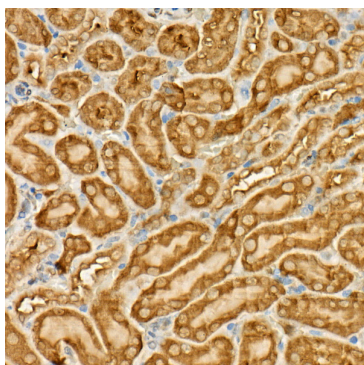
Validation Data



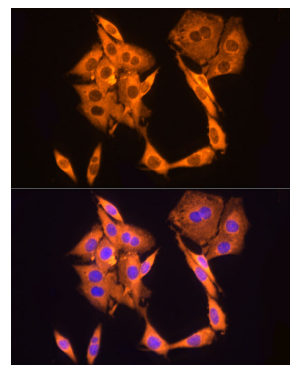
Western blot analysis of various lysates using GAPDH Mouse mAb (High Dilution) (AC033) at 1:220000 dilution incubated overnight at 4°C.
 Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.
 Lysates/proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 10s.



Immunohistochemistry analysis of paraffin-embedded Human kidney using GAPDH Mouse mAb (High Dilution) (AC033) at dilution of 1:500 (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 (High Dilution) (AC033) at dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



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.