

GAPDH (Human Specific) Rabbit mAb

Catalog No.: AC036 **Recombinant** **17 Publications**

Basic Information

Observed MW

36kDa

Calculated MW

36kDa

Category

Loading control antibody

Applications

ELISA, WB, IF/ICC

Cross-Reactivity

Human

CloneNo number

ARC5136-01

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 1:50000 - 1:200000**IF/ICC** 1:200 - 1:2000

Immunogen Information

Gene ID

2597

Swiss Prot

P04406

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-335 of human GAPDH (NP_002037.2).

Synonyms

G3PD; GAPD; HEL-S-162eP; GAPDH (Human Specific)

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

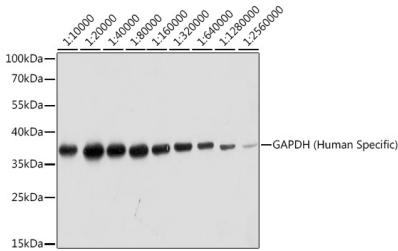
Affinity purification

Storage

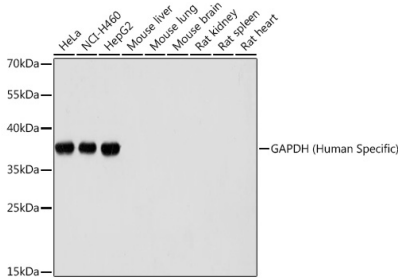
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

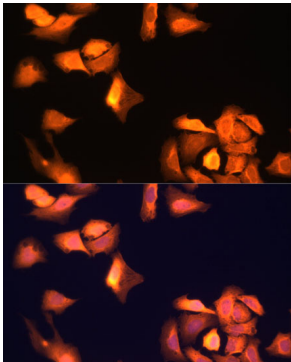
Validation Data



Western blot analysis of lysates from HeLa cells, using GAPDH (Human Specific) Rabbit mAb (AC036) at 1:10000-1:2560000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Western blot analysis of various lysates using GAPDH (Human Specific) Rabbit mAb (AC036) at 1:100000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Immunofluorescence analysis of U-2 OS cells using GAPDH (Human Specific) Rabbit mAb (AC036) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.