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GAPDH Mouse Monoclonal Ab (High Dilution)

Catalog No: tcba13660

Available Sizes

Size: 50ul

Size: 100ul

Specifications

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.

Recommended Dilution:
WB 1:50000 - 1:200000
IHC 1:50 - 1:200
IF 1:50 - 1:200

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Tested Application:
WB, IHC, IF

Storage Instruction:
Store at -20℃. Avoid freeze / thaw cycles.

Alternative Names:
G3PD; GAPD; HEL-S-162eP; GAPDH

SwissProt:
P04406

Gene ID:
2597

Calculated Molecular Weight:
31kDa/36kDa

Observed Molecular Weight:
36kD

Purification:
Affinity purification

Cellular Location:
Cytoplasm,Membrane,Nucleus,cytoskeleton,cytosol,perinuclear region,

Notes

Antibody Dilution procedure: Put 5ul AC033 into 45 ul buffer(with 50% glycerol), diluted 1:10, 000 for using. The diluted antibody can be stored at -20℃ without aliquot.

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.

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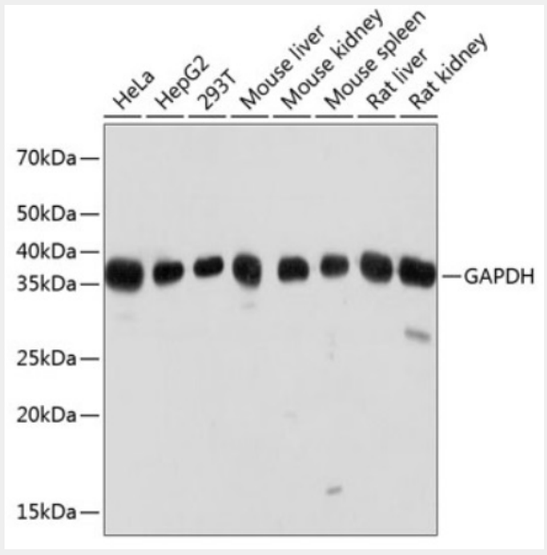
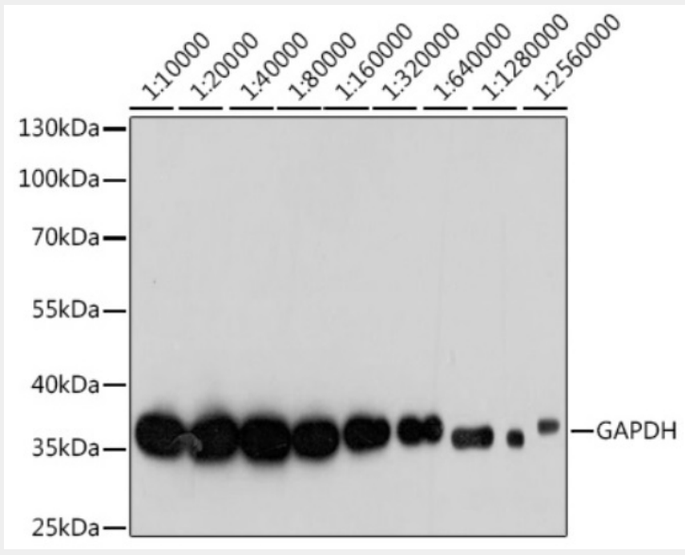
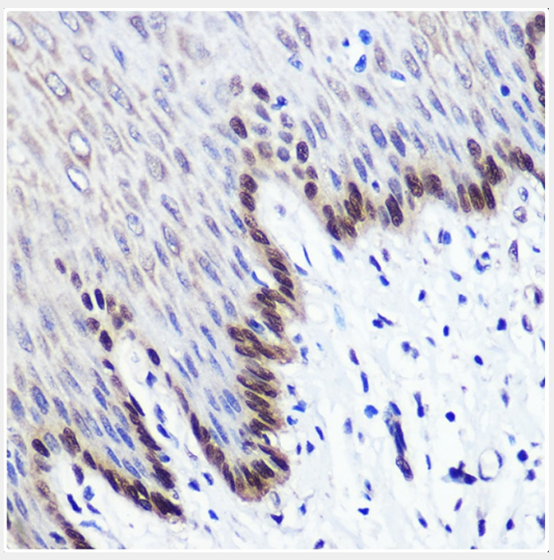


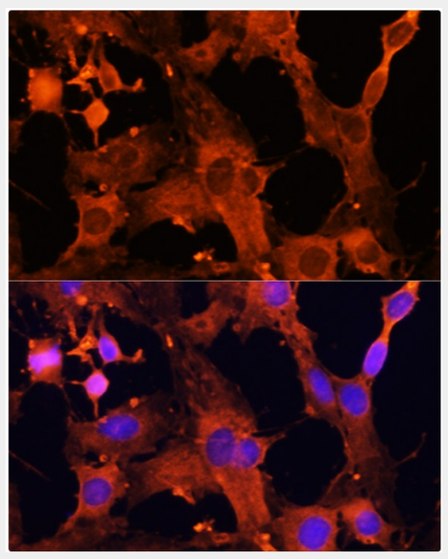
Western blot analysis of extracts of various cell lines, using GAPDH antibody at 1:20000 dilution.
Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit.
Exposure time:1s.



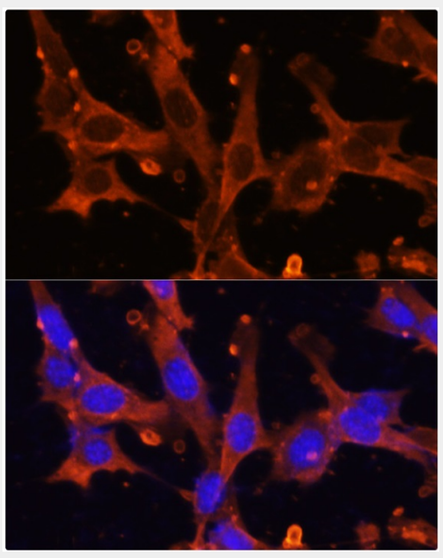
Western blot analysis of extracts of HeLa cells, using GAPDH antibody at 1:10000-1:2560000 dilution. Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit . Exposure time: 1s.



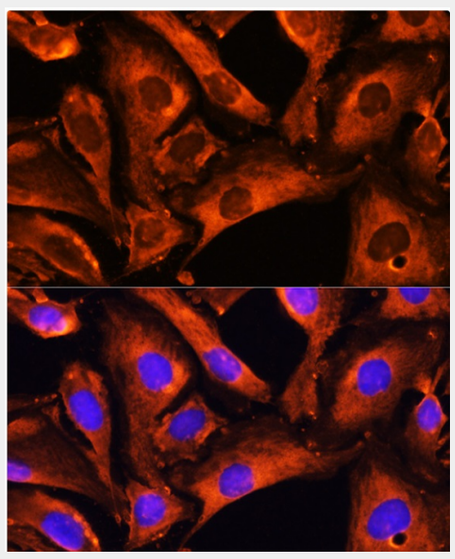
Immunohistochemistry of paraffin-embedded Human esophageal using GAPDH Mouse Monoclonal Ab at dilution of 1:100 (40x lens).



Immunofluorescence analysis of C6 cells using GAPDH Mouse mAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



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



Immunofluorescence analysis of U-2 OS cells using GAPDH Mouse mAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.