

GAPDH(SA30-01)

rev. 01/27/16

Cat#: ET1601-4

Product Type: Recombinant rabbit monoclonal IgG, primary antibodies

Species reactivity: Human, Mouse, Rat, Monkey, Chicken, Zebrafish, Hybrid fish(crucian-carp)

Applications: WB, ICC/IF, IHC, IP, FC

Molecular Wt.: 36 kDa **Clone number:** SA30-01

Description: GAPDH (Glyceraldehyde-3-phosphate dehydrogenase) has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. It participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. GAPDH is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate.

Immunogen:

Recombinant protein.

Positive control:

A549, NCCIT, PC12, F9, HepG2, human liver tissue, mouse liver tissue, mouse spleen tissue, hybrid fish (crucian-carp) brain tissue lysate.

Subcellular location:

Cytoplasm. Nucleus. Membrane.

Database links:

SwissProt: P04406 (Human) P16858 (Mouse)
P04797 (Rat) Q5XJ10 (Zebrafish)

Recommended Dilutions:

WB: 1:1,000-1:5,000 **ICC:** 1:50-1:200
IHC: 1:50-1:200 **FC:** 1:10-1:100

Storage Buffer:

1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction:

Store at +4° C after thawing. Aliquot store at -20° C or -80° C. Avoid repeated freeze / thaw cycles.

Purity:

ProA affinity purified

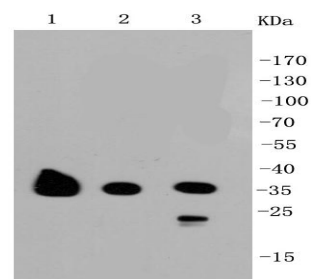


Fig1: Western blot analysis of GAPDH on different cell lysates using anti-GAPDH antibody at 1/1,000 dilution.

Positive control:

Lane 1: NCCIT Lane 2: PC12
Lane 3: F9

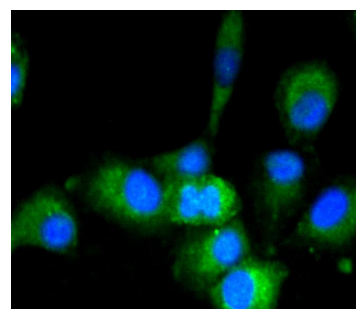


Fig2: ICC staining GAPDH in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

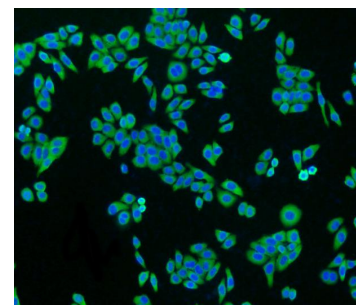


Fig3: ICC staining GAPDH in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

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Applications: WB=Western blot IP=Immunoprecipitation IHC=Immunohistochemistry IF=Immunofluorescence FC=Flow cytometry
Species Cross-Reactivity: H=human M=mouse R=rat Hm=hamster Mk=monkey Mi=mink C=chicken Dm=D.melanogaster X=Xenopus Z=zebrafish
B=bovine Dg=dog Pg=pig Sc=S.

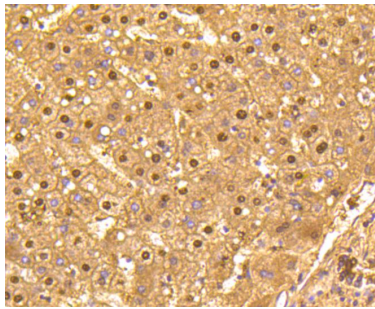


Fig4: Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-GAPDH antibody. Counter stained with hematoxylin.

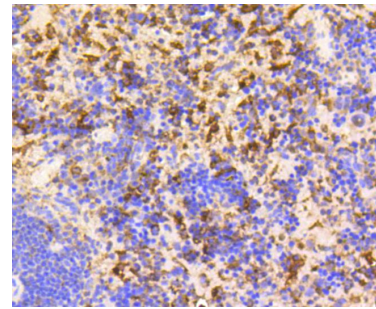


Fig6: Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-GAPDH antibody. Counter stained with hematoxylin.

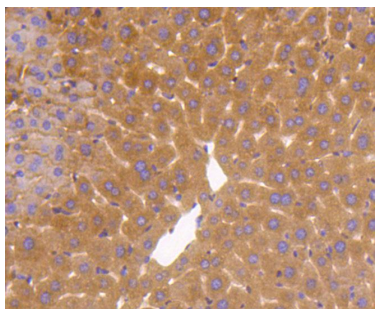


Fig5: Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-GAPDH antibody. Counter stained with hematoxylin.

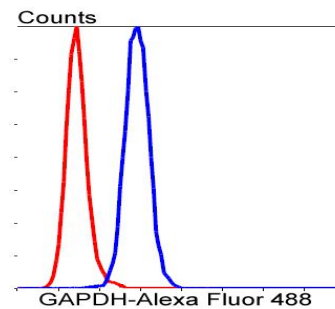


Fig7: Flow cytometric analysis of HepG2 cells with GAPDH antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red).

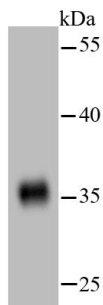


Fig8: Western blot analysis of GAPDH on hybrid fish (crucian-carp) brain tissue lysate using anti-GAPDH antibody at 1/500 dilution.

Background References

1. Jenkins J.L., et al. High-resolution structure of human D-glyceraldehyde-3-phosphate dehydrogenase. *Acta Crystallogr D Biol Crystallogr* 62:290-301 (2006).
2. Ismail S.A., et al. Structural analysis of human liver glyceraldehyde-3-phosphate dehydrogenase. *Acta Crystallogr D Biol Crystallogr* 61:1508-1513 (2005).

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