

Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) monoclonal antibody

Cat. no. A21994

Components: 100 µg monoclonal antibody

Lot no.: See product label

Clone/PAD: 3E8AD9

Isotype: Mouse IgG2b

Gene ID: 2597 **Gene Symbol:** GAPDH

Alternative Names: Glyceraldehyde-3-phosphate dehydrogenase, G3PD, GAPD, MGC88685

Concentration: 1 mg/mL in Hepes-Buffered Saline (HBS) with 0.02% sodium azide as a

preservative

mAb PURITY: Near homogeneity as judged by SDS-PAGE. The antibody was produced *in vitro*

using hybridomas grown in serum-free medium, and then purified by

biochemical fractionation.

Reactivity: Human

Immunogen: Purified GAPDH from human erythrocytes, purified PC from bovine liver

Validated Applications: Western blotting, immunocytochemistry, immunoprecipitation

Suggested Working 0.125 μ g/mL for Western blotting, 0.5 μ g/mL for immunocytochemistry

Concentration: (This is a starting working concentration. The optimal antibody concentration should be

determined empirically for each specific application.)

Storage: Store at 2–8°C. Do not freeze.

Expiration Date: See product label.

Target Background:

The GAPDH gene product catalyzes the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD), which is an important energy-yielding step in carbohydrate metabolism. The enzyme exists as a tetramer of identical chains. Many pseudogenes similar to this locus are present in the human genome.

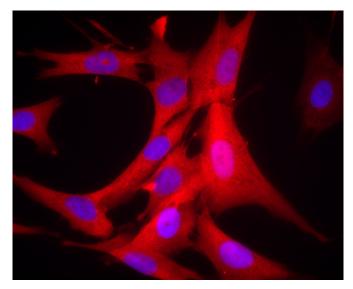
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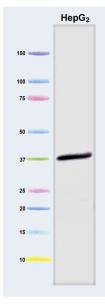
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Immunocytochemistry image of Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) monoclonal antibody. Human HDFn cells were fixed in 4% paraformaldehyde for 20 minutes and then permeabilized with 0.1% Triton[®] X-100 for 15 minutes. The cells were incubated with 0.5 μg/mL of the antibody for 2 hours at room temperature or overnight at 4°C. Alexa Fluor[®] 594 goat anti-mouse IgG (H+L) was used as a secondary antibody at a 1:1,000 dilution for 1 hour (red). 10% Goat serum was used as the blocking agent for all blocking steps. The cell nuclei were counterstained with DAPI (blue). Target protein locates mainly in cytoplasm.



Western Blot image of Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) monoclonal antibody. Samples were separated by SDS-PAGE (gradient gel, 10–20%). The bands were transferred to a PVDF membrane and incubated with the primary antibody at the recommended working concentration. AP-conjugated GAM secondary antibodies were used at a 1:3,000 dilution for detection and the signal was developed with AP development kit.

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