GAPDH Mouse Monoclonal Antibody

E10-20035

Background: Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) is well known as one of the key enzymes involved in glycolysis. It 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 enzyme exists as a tetramer of identical chains. Besides its functioning as a glycolytic enzyme in cytoplasm, recent evidence suggest that mammalian GAPDH is also involved in a great number of intracellular proceses such as phosphotransferase activity, nuclear RNA export, DNA replication, and DNA repair. During the last decade a lot of findings appeared concerning the role of GAPDH in different pathologies including prostate cancer progression, programmed neuronal cell death, age-related neuronal diseases, such as Alzheimer's and Huntington's disease.

Catalog Number: E10-20035

Amount: 100µg/100µl

Clone Number: 1A10

Species: Mouse IgG1

MW: 37kDa

Aliases: G3PD; GAPD; MGC88685

Entrez Gene: 2597

Immunogen: Purified recombinant fragment of human GAPDH expressed in E. Coli.

Storage: Store at 4℃, for long term storage, store at -20℃

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: WB, IHC,IF, ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB.1/500 - 1/2000, IHC.1/200 - 1/1000, IF.1/200 - 1/1000,ELISA. Propose dilution 1/10000.

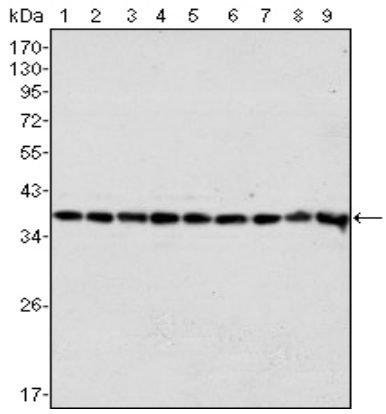

Figure 1. Western blot analysis using GAPDH mouse mAb against Hela (1), A549 (2), A431 (3), MCF-7 (4), K562 (5), Jurkat (6), HL60 (7), SKN-SH (8) and SKBR-3 (9) cell lysate.

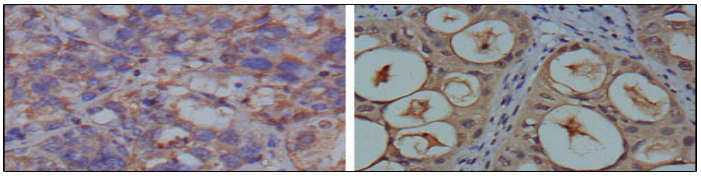

Figure 2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma (left) and kidney carcinoma (right), showing cytoplasmic localization using GAPDH mouse mAb with DAB staining.

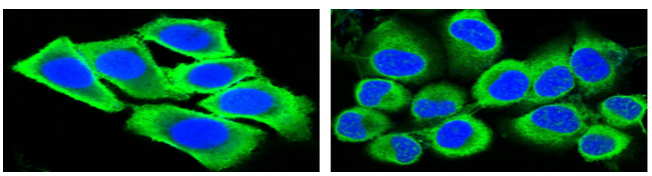

Figure 3. Confocal immunofluorescence analysis of methanol-fixed HepG2 (left) and Hela (right) cells using GAPDH mouse mAb (green), showing cytoplasmic localization. Blue. DRAQ5 fluorescent DNA dye.

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