



Category: Monoclonal Antibodies
Product Name: Mouse Monoclonal Antibody to GAPDH

Catalog Number: MAB-606020035

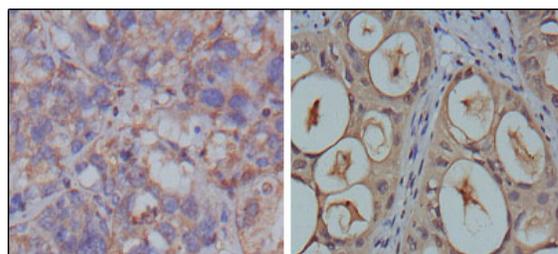
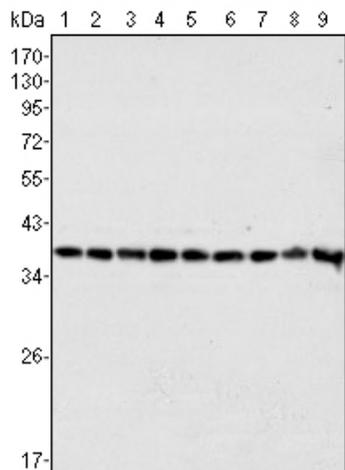


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma (left) and kidney carcinoma (right), showing cytoplasmic localization using GAPDH mouse mAb with DAB staining.

Lot#: 0501
Clone#: 1A10
Host and isotype: Mouse IgG1
Size: 0.1ml
MW: 37kDa
Aliases: G3PD; GAPD;
MGC88685
Entrez Gene: 2597
Species reactivity: Human

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.

Description 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 processes such as membrane fusion, microtubule bundling, 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.

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

Application Western Blotting: 1/500 - 1/2000.
Immunohistochemistry: 1/200 - 1/1000.
Immunofluorescence: 1/200 - 1/1000.
ELISA: Propose dilution 1/10000.
Not yet tested in other applications.
Determining optimal working dilutions by titration test.

Formulation Ascitic fluid containing 0.03% sodium azide.

Storage Store at 4°C, for long term storage, store at -20°C.

Related product

1. #20270, Mouse Monoclonal Antibody to beta-Actin.

References 1. Allen R.W. J. Biol. Chem. 1987.262:649-653.
2. Sumner CJ. Ann Neurol 2003.54:6 47-54.

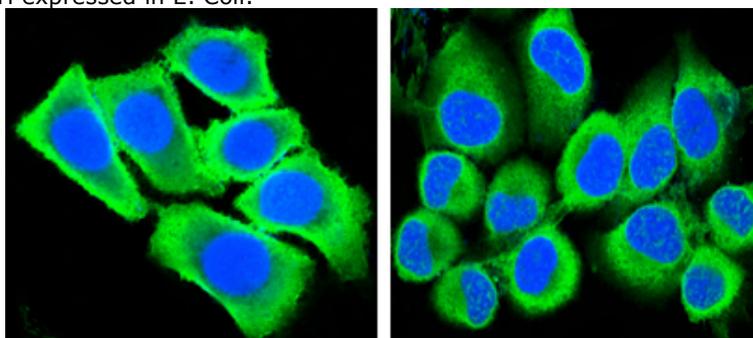


Figure 3: Confocal immunofluorescence analysis of methanol-fixed HepG2 (left) and HeLa (right) cells using GAPDH mouse mAb (green), showing cytoplasmic localization. Blue: DRAQ5 fluorescent DNA dye.

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Contact: Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: Info@antageneinc.com