

GAPDH Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA4853
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human GAPDH expressed in E. Coli.
Mol wt	37kDa
Species reactivity	Human,Mouse,Rat
Clonality	Monoclonal
Recommended application	WB,IHC,ICC
Concentration	N/A
Full name	N/A
Synonyms	G3PD;GAPD;MGC88685

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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 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

Recommended Dilution

WB: 1:500 - 1:2000

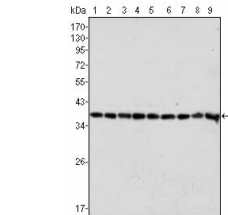
IHC-p: 1:200 - 1:1000

ICC: 1:200 - 1:1000

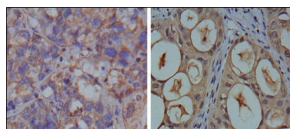
ELISA: 1:10000

Not yet tested in other applications.

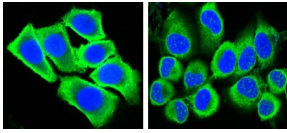
Images



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.



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



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.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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