

GAPDH Monoclonal Antibody(2B8), HRP Conjugated

Catalog No: YM2054

Reactivity: Human;Rat;Mouse;Mk;Dg;Ch;Hamster;Rabbit;Pig;sheep;Insect;Yeast

Applications: WB;IF;IHC

Target: GAPDH

Fields: >>Glycolysis / Gluconeogenesis;>>Metabolic pathways;>>Carbon

metabolism;>>Biosynthesis of amino acids;>>HIF-1 signaling pathway;>>Alzheimer disease;>>Pathogenic Escherichia coli infection;>>Salmonella infection;>>Diabetic cardiomyopathy

Gene Name: GAPDH

Protein Name: Glyceraldehyde-3-phosphate dehydrogenase

Human Gene Id: 2597

Human Swiss Prot

No:

Specificity: GAPDH Monoclonal Antibody(2B8) specially designed for your immunoassay as

internal control.

Formulation: Liquid in PBS, pH 7.4, containing 0.02% sodium azide as preservative and 50%

Glycerol.

P04406

Source: Monoclonal, Mouse IgG1

Dilution: Optimal working dilutions should be determined experimentally by the

investigator. Suggested starting dilutions are as follows: WB 1:5000, IHC 1:200.

Purification: The antibody was affinity-purified from mouse ascites by affinity-

chromatography using specific immunogen.

Concentration: 1mg/ml

Storage Stability: Stable for one year at -15°C to -25°C from date of shipment. For maximum

recovery of product, centrifuge the original vial after thawing and prior to removing



the cap. Aliquot to avoid repeated freezi

Molecularweight: 36kD

Cell Pathway : Glycolysis / Gluconeogenesis; Alzheimer's disease;

Background:

glyceraldehyde-3-phosphate dehydrogenase(GAPDH) Homo sapiens This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The product of this gene 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 encoded protein has additionally been identified to have uracil DNA glycosylase activity in the nucleus. Also, this protein contains a peptide that has antimicrobial activity against E. coli, P. aeruginosa, and C. albicans. Studies of a similar protein in mouse have assigned a variety of additional functions including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferri

Function:

catalytic activity:D-glyceraldehyde 3-phosphate + phosphate + NAD(+) = 3-phospho-D-glyceroyl phosphate + NADH.,function:Independent of its glycolytic activity it is also involved in membrane trafficking in the early secretory pathway.,online information:Glyceraldehyde 3-phosphate dehydrogenase entry,pathway:Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 1.,pathway:Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 1/5.,PTM:Reversible S-nitrosylation of Cys-152 inhibits enzymatic activity and increases endogenous ADP-ribosylation, which inhibits the enzyme in a non-reversible manner. The latter modification is more likely to be a pathophysiological event associated with inhibition of gluconeogenesis.,sequence caution:Differs quite extensively.,similarity:Belongs to the glyceraldehyde-3-phosphate dehydrogenase fami

Subcellular Location : Cytoplasm, cytosol . Nucleus . Cytoplasm, perinuclear region . Membrane . Cytoplasm, cytoskeleton . Translocates to the nucleus following S-nitrosylation and interaction with SIAH1, which contains a nuclear localization signal (By similarity). Postnuclear and Perinuclear regions (PubMed:12829261).

Expression : Astrocytoma, Brain, Cajal-Retzius cell, Colon adenocarcinoma, Epitheliu

Sort : 6447

No4: 1



Products Images