GAPDH Monoclonal Antibody(2B8), Cy5 Conjugated

Catalog No	YP-Ab-04568
Isotype	IgG
Reactivity	Human;Rat;Mouse;Mk;Dg;Ch;Hamster;Rabbit;Pig;sheep;Insect;Yeast
Applications	WB;IF;IHC
Gene Name	GAPDH
Protein Name	Glyceraldehyde-3-phosphate dehydrogenase
Immunogen	
Specificity	GAPDH Monoclonal Antibody(2B8) Cy5 Conjugated specially designed for your Immunofluorescence analysis.
Formulation	Liquid in PBS, pH 7.4, containing 0.02% sodium azide as preservative and 50% Glycerol.
Source	Monoclonal, Mouse IgG1
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: IHC: 1:200, IF 1:200.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GAPDH
Observed Band	
Cell Pathway	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). .
Tissue Specificity	Astrocytoma,Brain,Cajal-Retzius cell,Colon adenocarcinoma,Epitheliu
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
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
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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