

GAPDH-HRP

Cat. QYA03819AHRP

Background

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 transferrin receptor on the cell surface of macrophage. Many pseudogenes similar to this locus are present in the human genome. Alternative splicing results in multiple transcript variants.

Source

GAPDH-HRP mouse monoclonal antibody is produced by immunizing animals with the internal region of human GAPDH protein, which was conjugated to HRP. The antibody was affinity-purified by affinity-chromatography using specific immunogen.

Product

Each vial contains 50ug mouse IgG diluted in 100ul of PBS pH7.4, containing 1mg/ml BSA, 0.01% thiomersal and 50% glycerol. The antibody concentration is 0.5mg/ml.

Specificity

The antibody detects endogenous GAPDH proteins.

Applications and Suggested Working Concentration

WB: 1:5000-1:10000

IHC: 1:200

Storage

Storage at -20°C. Do not aliquot the antibody. Stable for one year from the date of shipment.

For research use only, not for use in diagnostic procedures.

GAPDH-HRP

Catalog No.	QYA03819AHRP
Size.	100ul
Gene Name.	GAPDH
Protein Name.	GAPDH, glyceraldehyde-3-phosphate dehydrogenase
Source.	Mouse
Immunogen.	Synthesized peptide
Purification.	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using specific immunogen.
Specificity.	The antibody detects endogenous GAPDH protein.
Formulation.	PBS, pH 7.4, containing 0.01% thiomersal and 50% Glycerol.
Concentration.	0.5mg/ml
Storage / Stability.	-20°C/1 year
Human Gene ID.	2597
Human Swiss-Prot No.	P04406
Mouse Gene ID	100042025
Mouse Swiss-Prot No.	P16858
Rat Gene ID	24383
Rat Swiss-Prot No.	P04797
Reactivity.	H, R, M, Mk, Dg, C, Hm, Rb, Pg, Sh, Insect, Yeast
Applications.	WB, IHC
Predicted band (Da)	36053
Observed band (KDa)	37
Dilution.	WB:1:5000-1:10000, IHC:1:200
Other name.	GAPDH; GAPD; CDABP0047; OK/SW-cl.12; Glyceraldehyde-3-phosphate dehydrogenase; GAPDH; Peptidyl-cysteine S-nitrosylase GAPDH