

Cat. No:	MAB-10578HRP
Conjugate:	Unconjugated
Size:	100 ug
Clone:	6C5
Concentration:	1mg/ml
Host:	Ms
Isotype:	IgG1
Immunogen:	Recombinant protein of human GAPDH
Reactivity:	Hu, Ms, Rt, Dg, Rb, Ch
Applications:	Western Blot: 1:3000-1:5000
Molecular Weight:	36kDa
Purification:	Purified
Synonyms:	G3PD;GAPD;HEL-S-162eP

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.

Form: Liquid

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

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