

# GAPDH Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant GAPDH.

Catalog # AT2152a

## Product Information

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<b>Application</b>	WB, IP, E
<b>Primary Accession</b>	<a href="#">P04406</a>
<b>Other Accession</b>	<a href="#">NM_002046</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG1 Kappa
<b>Clone Names</b>	1G5
<b>Calculated MW</b>	36053

## Additional Information

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<b>Gene ID</b>	2597
<b>Other Names</b>	Glyceraldehyde-3-phosphate dehydrogenase, GAPDH, Peptidyl-cysteine S-nitrosylase GAPDH, 2699-, GAPDH, GAPD
<b>Target/Specificity</b>	GAPDH (NP_002037, 226 a.a. ~ 335 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 IP~~N/A E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	GAPDH Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

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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 enzyme exists as a tetramer of identical chains. Many pseudogenes similar to this locus are present in the human genome.

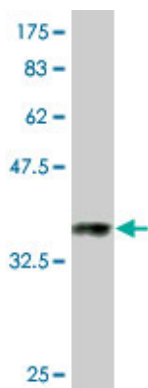
## References

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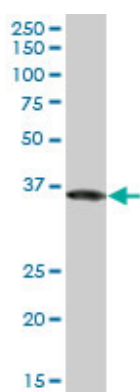
Inhibition of glyceraldehyde-3-phosphate dehydrogenase activity by antibodies present in the cerebrospinal fluid of patients with multiple sclerosis. K?lln J, et al. J Immunol, 2010 Aug 1. PMID 20610654. Proteome

analysis of the thalamus and cerebrospinal fluid reveals glycolysis dysfunction and potential biomarkers candidates for schizophrenia. Martins-de-Souza D, et al. J Psychiatr Res, 2010 May 14. PMID 20471030. Sex-specific proteome differences in the anterior cingulate cortex of schizophrenia. Martins-de-Souza D, et al. J Psychiatr Res, 2010 Apr 8. PMID 20381070. Identification of melanoma antigens using a Serological Proteome Approach (SERPA). Suzuki A, et al. Cancer Genomics Proteomics, 2010 Jan-Feb. PMID 20181627. siah-1 Protein is necessary for high glucose-induced glyceraldehyde-3-phosphate dehydrogenase nuclear accumulation and cell death in Muller cells. Yego EC, et al. J Biol Chem, 2010 Jan 29. PMID 19940145.

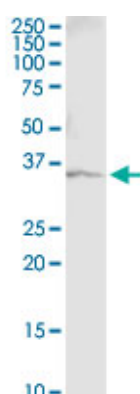
## Images



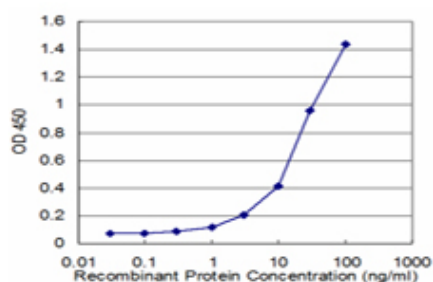
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .



GAPDH monoclonal antibody (M03), clone 1G5. Western Blot analysis of GAPDH expression in HeLa ( (Cat # AT2152a )



Immunoprecipitation of GAPDH transfected lysate using anti-GAPDH monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with GAPDH MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged GAPDH is approximately 1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.