

GAPDH Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant GAPDH. Catalog # AT2152a

Specification

GAPDH Antibody (monoclonal) (M03) - Product Information

WB, IP, E Application **Primary Accession** P04406 Other Accession NM 002046 Reactivity Human Host Mouse Clonality **Monoclonal** Isotype IgG1 Kappa Calculated MW 36053

GAPDH Antibody (monoclonal) (M03) - Additional Information

Gene ID 2597

Other Names

Glyceraldehyde-3-phosphate dehydrogenase, GAPDH, Peptidyl-cysteine S-nitrosylase GAPDH, 2699-, GAPDH, GAPD

Target/Specificity

GAPDH (NP_002037, 226 a.a. \sim 335 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000 IP~~N/A E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2.

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

GAPDH Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

GAPDH Antibody (monoclonal) (M03) - Protocols

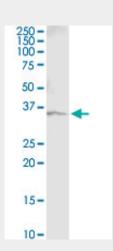
Provided below are standard protocols that you may find useful for product applications.

• Western Blot

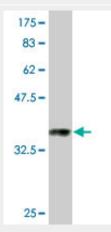


- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GAPDH Antibody (monoclonal) (M03) - Images

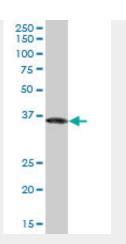


Immunoprecipitation of GAPDH transfected lysate using anti-GAPDH monoclonal antibody and Protein A Magnetic Bead (<u>U0007</u>), and immunoblotted with GAPDH MaxPab rabbit polyclonal antibody.

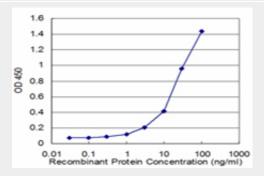


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen $(37.84 \; \text{KDa})$.





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



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

GAPDH Antibody (monoclonal) (M03) - Background

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.

GAPDH Antibody (monoclonal) (M03) - References

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.