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# GAPDH Antibody (monoclonal) (M03)

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

## Specification

### GAPDH Antibody (monoclonal) (M03) - Product Information

| | |
|---|---|
| Application | **IP, WB, E** |
| 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. ~ 335 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**
WB~~1:500~1000

**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

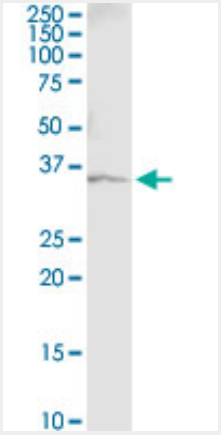
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

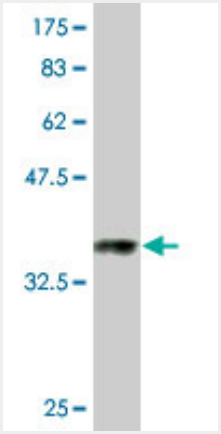
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- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

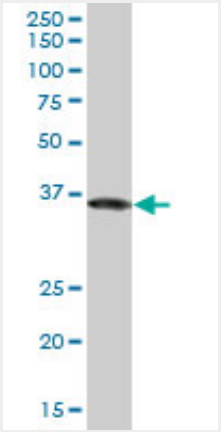
**GAPDH Antibody (monoclonal) (M03) - Images**




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

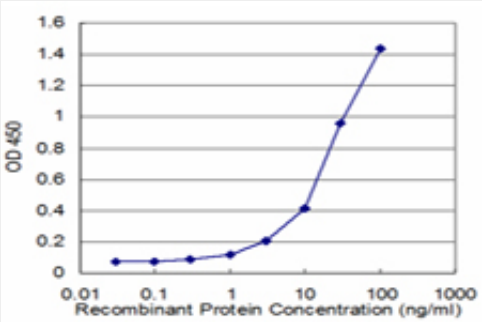



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



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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.