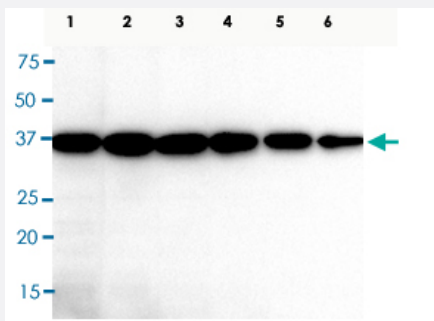


GAPDH monoclonal antibody, clone AT8G4

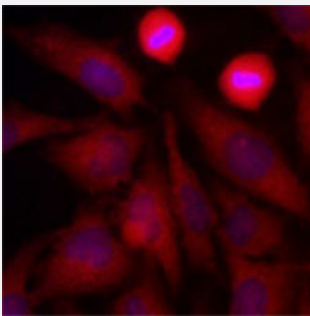
Catalog # MAB8701 Size 100 uL

Applications



Western Blot

Western blot analysis of Lane 1: Anti-human GAPDH antibody (1:1000), Lane 2: Anti-human GAPDH antibody (1:2000), Lane 3: Anti-human GAPDH antibody (1:4000), Lane 4: Anti-human GAPDH antibody (1:6000), Lane 5: Anti-human GAPDH antibody (1:8000), Lane 6: Anti-human GAPDH antibody (1:10000).



Immunofluorescence

Immunofluorescence of human HeLa cells stained with Hoechst 3342 (Blue) for nucleus staining and GAPDH monoclonal antibody, clone AT8G4 (Cat # MAB8701) (1 : 500) with Texas Red (Red).

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant GAPDH.
Immunogen	Recombinant protein corresponding to full length human GAPDH.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Concentration	1 mg/mL

Isotype	IgG2b, kappa
Recommend Usage	ELISA Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of Lane 1: Anti-human GAPDH antibody (1:1000), Lane 2: Anti-human GAPDH antibody (1:2000), Lane 3: Anti-human GAPDH antibody (1:4000), Lane 4: Anti-human GAPDH antibody (1:6000), Lane 5: Anti-human GAPDH antibody (1:8000), Lane 6: Anti-human GAPDH antibody (1:10000).

- Immunocytochemistry

- Immunofluorescence

Immunofluorescence of human HeLa cells stained with Hoechst 3342 (Blue) for nucleus staining and GAPDH monoclonal antibody, clone AT8G4 (Cat # MAB8701) (1 : 500) with Texas Red (Red).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — GAPDH

Entrez GeneID	2597
Protein Accession#	NP_002037
Gene Name	GAPDH
Gene Alias	G3PD, GAPD, MGC88685
Gene Description	glyceraldehyde-3-phosphate dehydrogenase
Omim ID	138400

Gene Ontology

[Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

OTTHUMP00000174431|OTTHUMP00000174432|aging-associated gene 9 protein|glyceraldehyde 3-phosphate dehydrogenase

Publication Reference

- [Glyceraldehyde-3-phosphate dehydrogenase, apoptosis, and neurodegenerative diseases.](#)

Chuang DM, Hough C, Senatorov VV.

Annual Review of Pharmacology and Toxicology 2005 Jan; 45:269.

Application: IF, IHC, Mouse, Mouse brains

- [Alteration of intracellular structure and function of glyceraldehyde-3-phosphate dehydrogenase: a common phenotype of neurodegenerative disorders?](#)

Mazzola JL, Sirover MA.

Neurotoxicology 2002 Oct; 23(4-5):603.

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Nerve Degeneration](#)
- [Osteoporosis](#)