Mouse anti GAPDH Monoclonal Antibody

Alternative Name(s): glyceraldehyde-3-phosphate dehydrogenase

Order Information

- **Description:** GAPDH
- **Catalogue:** 602-010
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 258.0
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

A purified rabbit muscle GAPDH (whole molecule)

BACKGROUND

GAPDH, also known as glyceraldehyde-3-phosphate dehydrogenase, is well known for its glycolytic function of converting D-glyceraldehyde-3-phosphate to 1,3-bisphosphoglycerate. GAPDH is a ubiquitously expressed and has a molecular mass of 36 kD. Though differentially expressed from tissue to tissue, GAPDH is frequently used as a loading control for assays involving mRNA and protein detection. In more recent studies, GAPDH has been shown to be involved in microtubule bundling, prostate cancer progression, programmed neuronal cell death, DNA replication, and DNA repair. Recent work has elucidated roles for GAPDH in apoptosis, gene expression and nuclear transport. GAPDH may also play a role in neurodegenerative pathologies such as Huntington and Alzheimer's diseases.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes Glyceraldehyde-3-PDH monomer (36 kDa) and the dimer form. It reacts with human, rabbit, rat, mouse, dog, cat, fish and pig. It does not react with GAPDH from bovine, goat and yeast.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 36.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

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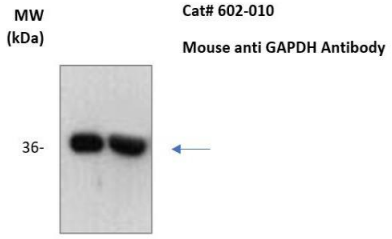
DATA ATTACHMENTS



Western Blot: Tissue lysate from Mouse muscle (20 ug/lane) was resolved onto 12% SDS-PAGE and transferred onto NC Membrane, then immunoprobed by Mouse Anti-GAPDH antibody (Cat# 602-010) at 1:500. Observed a major immunoreactive band at molecular weight ~36kDa.

Immunohistochemistry: Human colon tissue stained with Mouse Anti-GAPDH antibody (Cat# 602-010) at 1:50 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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