



## Mouse anti GAPDH Monoclonal Antibody

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

### Order Information

- **Description:** GAPDH
- **Catalogue:** 602-011
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 2D4A7
- **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  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . The antibodies can be stored at  $2^{\circ}\text{C}$ - $8^{\circ}\text{C}$  for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

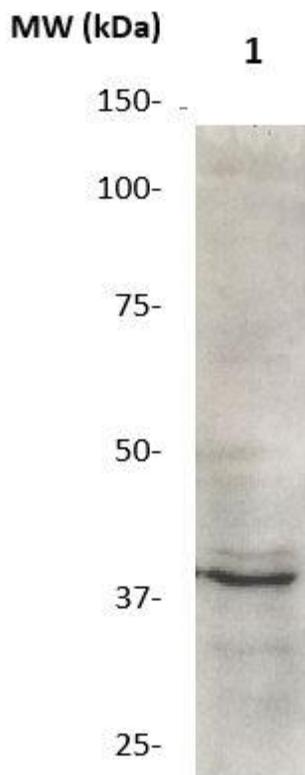
- Western Blot: 0.1-1  $\mu\text{g/ml}$
- ELISA: 0.01-0.1  $\mu\text{g/ml}$
- Immunoprecipitation: 2-5  $\mu\text{g/ml}$
- IHC: 2-10  $\mu\text{g/ml}$
- Flow cytometry: Not tested
- Molecular Weight: 36.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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

### **FOR RESEARCH USE ONLY.**

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**DATA ATTACHMENTS**



Western Blot: The whole lysate derived from HeLa (20 ug/lane) immunoblotted by Mouse anti – GAPDH (Cat# 602-011) at 1:500. Observed a major immunoreactive band at molecular weight ~36 kDa.

**REFERENCES**

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