

## GAPDH (2B8) Mouse mAb (HRP)

CatalogNo: YM2054

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Mouse, Rat, Mk, Dg, Ch, Hamster, Pig, sheep, Insect, Yeast

#### Applications

- WB, IF, IHC

#### MW

- 36kD  
(Calculated)

#### Isotype

- IgG1

#### Conjugate

- HRP

### Storage

#### Storage\*

Stable for one year at -15°C to -25°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

#### Formulation

Liquid in PBS, pH 7.4, containing 0.02% sodium azide as preservative and 50% Glycerol.

### Recommended Dilution Ratios

Optimal working dilutions should be determined experimentally by the investigator

Suggested starting dilutions are as follows:WB 1:5000

IHC 1:200.

### Basic Information

#### Clonality

Monoclonal

#### Clone Number

2B8

### Immunogen Information

#### Immunogen

The specific immunogen used to produce this antibody is proprietary information.

#### Specificity

GAPDH Monoclonal Antibody(2B8) specially designed for your immunoassay as internal control.

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## | Target Information

**Gene name** GAPDH

**Protein Name** Glyceraldehyde-3-phosphate dehydrogenase

Organism	Gene ID	UniProt ID
Human	<a href="#">2597;</a>	<a href="#">P04406;</a>
Mouse	<a href="#">100042025;</a>	<a href="#">P16858;</a>
Rat	<a href="#">24383;</a>	<a href="#">P04797;</a>

**Cellular Localization** Cytoplasm , cytosol . Nucleus . Cytoplasm , perinuclear region . Membrane . Cytoplasm , cytoskeleton . Translocates to the nucleus following S-nitrosylation and interaction with SIAH1 , which contains a nuclear localization signal (By similarity) . Postnuclear and Perinuclear regions (PubMed:12829261) . .

**Tissue specificity** Astrocytoma ,Brain ,Cajal-Retzius cell ,Colon adenocarcinoma ,Epitheliu

**Function** Catalytic activity:D-glyceraldehyde 3-phosphate + phosphate + NAD (+) = 3-phospho-D-glyceroyl phosphate + NADH. ,Function:Independent of its glycolytic activity it is also involved in membrane trafficking in the early secretory pathway. ,online information:Glyceraldehyde 3-phosphate dehydrogenase entry ,pathway:Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 1. ,pathway:Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 1/5. ,PTM:Reversible S-nitrosylation of Cys-152 inhibits enzymatic activity and increases endogenous ADP-ribosylation , which inhibits the enzyme in a non-reversible manner. The latter modification is more likely to be a pathophysiological event associated with inhibition of gluconeogenesis. ,sequence Caution:Differs quite extensively. ,similarity:Belongs to the glyceraldehyde-3-phosphate dehydrogenase family. ,subcellular location:Postnuclear and Perinuclear regions. ,subunit:Homotetramer. ,subunit:Homotetramer. Binds PRKCI. ,

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## | Validation Data

## | Contact information

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**GAPDH (2B8) Mouse mAb (HRP)**

