

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

CatalogNo: YM2050

### Key Features

#### Host Species

- Mouse

#### Reactivity

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

#### Applications

- WB,IF,IHC

#### Isotype

- IgG1

#### Conjugate

- Biotin

### 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.

### 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.

### Basic Information

**Clonality** Monoclonal

**Clone Number** 2B8

### Immunogen Information

**Specificity** GAPDH Monoclonal Antibody(2B8) Biotin conjugated specially designed for your WB or IHC analysis.

### 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> ; |

**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.,

## Validation Data

## Contact information

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

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