

## GAPDH (2B8) Mouse mAb (AbFluor 488)

CatalogNo: YM2045

### Key Features

#### Host Species

- Mouse

#### Reactivity

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

#### Applications

- WB, IF, IHC

#### Isotype

- IgG1

#### Conjugate

- AbFluor 488

### Recommended Dilution Ratios

Optimal working dilutions should be determined experimentally by the investigator

Suggested starting dilutions are as follows: IHC 1:200

IF 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. Store in dark.

#### 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) AbFluor™ 488 Conjugated specially designed for your Immunofluorescence 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> ;
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.,

## | Validation Data

## | Contact information

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Please scan the QR code to access additional product information:  
**GAPDH (2B8) Mouse mAb (AbFluor 488)**