

GAPDH (PT0004R) Rabbit mAb

CatalogNo: YM8016 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Dog, Monkey

Applications

- WB, ELISA

MW

- 37kD (Calculated)
- 37kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

WB 1:500-2000**ELISA 1:20000**

Basic Information

Clonality Monoclonal**Clone Number** PT0004R

Immunogen Information

Immunogen Synthesized peptide derived from human protein. AA range: 200-300**Specificity** Endogenous

Target Information

Gene name GAPDH

Protein Name Glyceraldehyde-3-phosphate dehydrogenase

Organism	Gene ID	UniProt ID
Human	2597;	P04406;
Mouse	100042025;	P16858;
Rat	24383;	P04797;

Cellular Localization

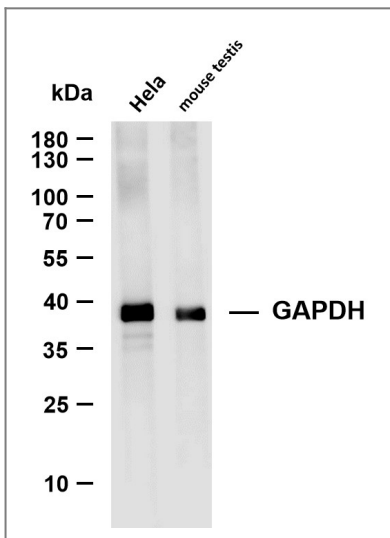
Cytoplasm, cytosol . Nucleus . Cytoplasm, perinuclear region . Membrane . Cytoplasm, cytoskeleton . Translocates to the nucleus following S-nitrosylation and interaction with SIAH1, which contains a nuclear localization signal (By similarity). Postnuclear and Perinuclear regions (PubMed:12829261). .

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



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-GAPDH antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1:PT0004R Lane 2: mouse testis Predicted band size: 37kDa Observed band size: 37kDa

| Contact information

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