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

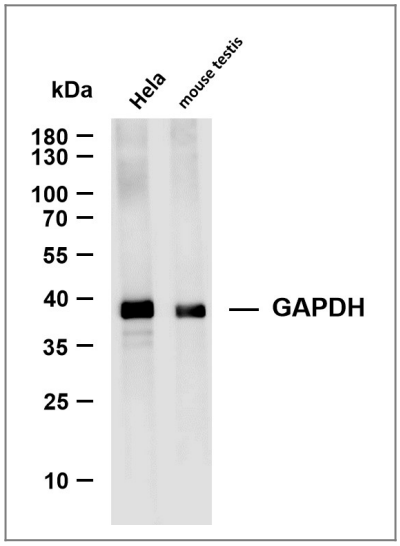
Organism	Gene ID	UniProt ID
Human	2597;	P04406;
Mouse	100042025;	P16858;
Rat	24383;	P04797;

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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GAPDH (PT0004R) Rabbit mAb

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