GAPDH (PTR2304) Mouse mAb

CatalogNo: YM3029 Orthogonal Validated

Key Features

Host Species
- Mouse

Reactivity
- Human,Mouse,Rat,Dog,Monkey,Pig,Bovine

Applications
- WB,IF,ELISA

MW
- 38kD (Calculated)

38kD (Observed)

Isotype
- IgG1, 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 1:10000-50000
IF 1:100-500
ELISA 1:50000-500000

Basic Information

Clonality	Monoclonal
Clone Number	PTR2304

Immunogen Information

Immunogen	Synthetic Peptide of human GAPDH AA range: 200-300
Specificity	This antibody detects endogenous levels of GAPDH protein.

Target Information

Gene name GAPDH

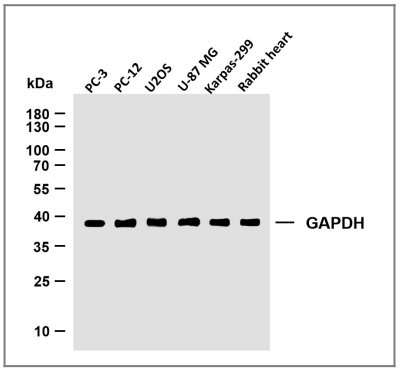
Protein Name Glyceraldehyde-3-phosphate dehydrogenase

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

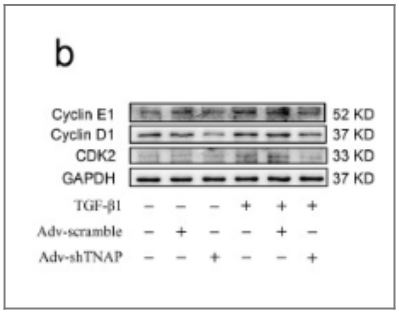
Tissue specificity Astrocytoma ,Brain ,Cajal-Retzius cell ,Colon adenocarcinoma ,Epitheliu

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. ,

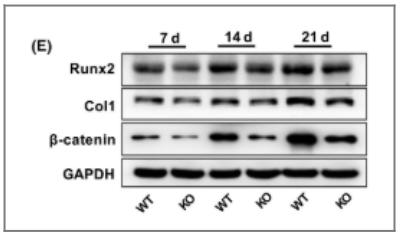
Validation Data



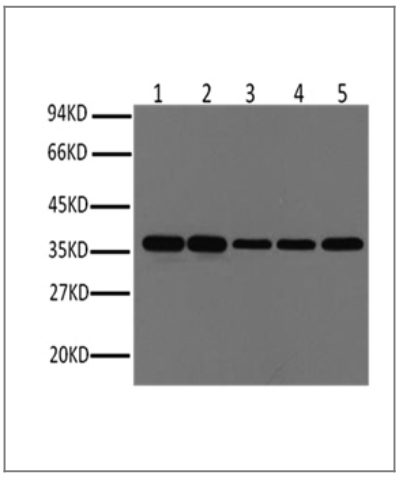
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-GAPDH (PTR2304) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1:PC-3 Lane 2: PC-12 Lane 3: U2OS Lane 4: U-87 MG Lane 5:Karpas-299 Lane 6: Rabbit heart



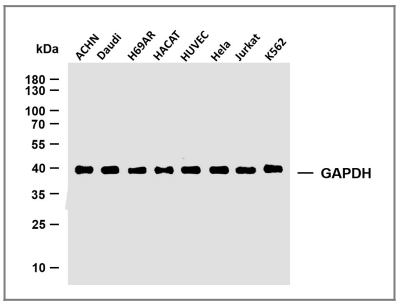
Cheng, Xiaocheng, et al. "TNAP is a novel regulator of cardiac fibrosis after myocardial infarction by mediating TGF-β/Smads and ERK1/2 signaling pathways." EBioMedicine 67 (2021): 103370.



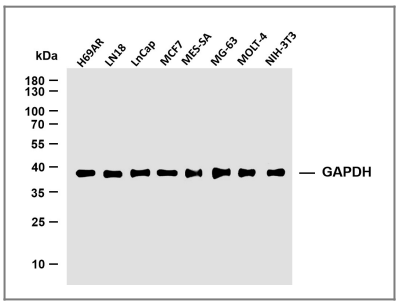
Wang, Yingying, et al. "p75NTR−/− mice exhibit an alveolar bone loss phenotype and inhibited PI3K/Akt/β-catenin pathway." Cell proliferation 53.4 (2020): e12800.



Western blot analysis of Hela (1), Rat brain (2), Rabbit Muscle (3), Sheep Muscle (4), and Mouse brain (5), diluted at 1:10000.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-GAPDH (PTR2304) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1:ACHN Lane 2: Daudi Lane 3: H69AR Lane 4: HACAT Lane 5:HUVEC Lane 6: Hela Lane 7: Jurkat Lane 8: K562



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Contact information

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Please scan the QR code to access additional product information:
GAPDH (PTR2304) Mouse mAb