

## GAPDH (PTR2304) Mouse mAb

CatalogNo: YM3029 **Orthogonal Validated** 

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Mouse, Rat, Dog, Monkey, Rabbit, 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

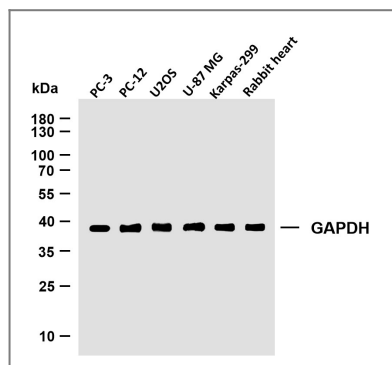
Organism	Gene ID	UniProt ID
Human	<a href="#">2597</a> ;	<a href="#">P04406</a> ;
Mouse	<a href="#">100042025</a> ;	<a href="#">P16858</a> ;
Rat	<a href="#">24383</a> ;	<a href="#">P04797</a> ;

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

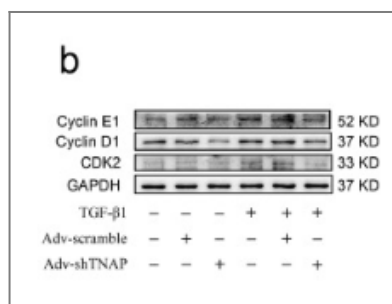
### Function

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. ,

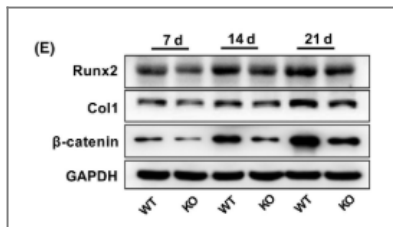
## Validation Data



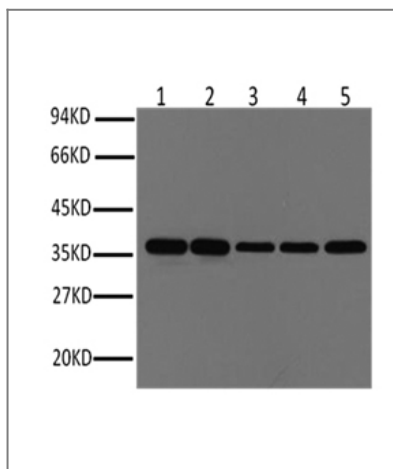
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-GAPDH (PTR2304) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1:PC-3 Lane 2: PC-12 Lane 3: U2OS Lane 4: U-87 MG Lane 5:Karpas-299 Lane 6: Rabbit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



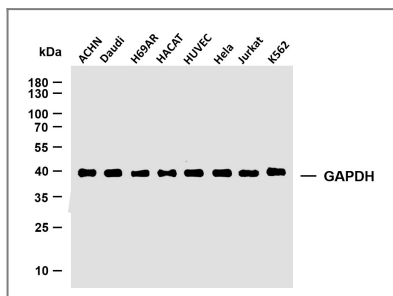
Cheng, Xiaocheng, et al. "TNAP is a novel regulator of cardiac fibrosis after myocardial infarction by mediating TGF-β/Smads and ERK1/2 signaling pathways." EBioMedicine 67 (2021): 103370.



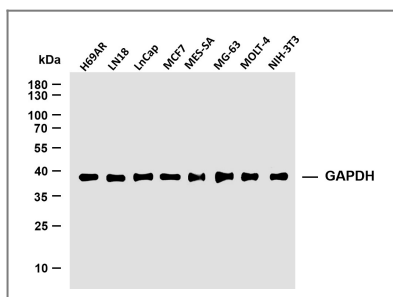
Wang, Yingying, et al. "p75NTR<sup>-/-</sup> mice exhibit an alveolar bone loss phenotype and inhibited PI3K/Akt/β-catenin pathway." *Cell proliferation* 53.4 (2020): e12800.



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



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## Contact information

Orders: order.cn@immunoway.com  
 Support: support.cn@immunoway.com  
 Telephone: 400-8787-807(China)  
 Website: <http://www.immunoway.com.cn>  
 Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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**Mouse mAb**