GAPDH (PT0582R) PT™ Rabbit mAb

CatalogNo: YM8394 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 38kD (Calculated)

38kD (Observed)

Isotype
- IgG,Kappa

Recommended Dilution Ratios

IHC 1:2000-1:5000
WB 1:10000-1:50000
IF 1:200-1:1000
ELISA 1:5000-1:20000

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

Basic Information

Clonality	Monoclonal
Clone Number	PT0582R

Immunogen Information

Specificity	Endogenous

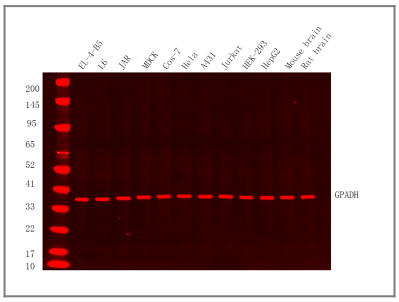
Target Information

Gene name	GAPDH
Protein Name	Glyceraldehyde-3-phosphate dehydrogenase

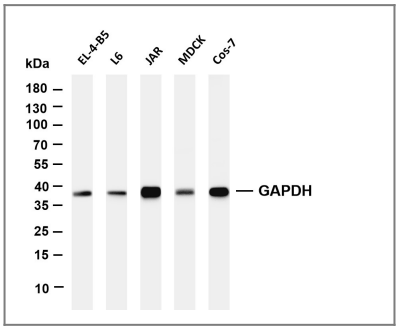
Organism	Gene ID	UniProt ID
Human	2597;	P04406;
Mouse	100042025;	P16858;
Rat	24383;	P04797;

Cellular Localization	Cytoplasm, Nucleus
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.,

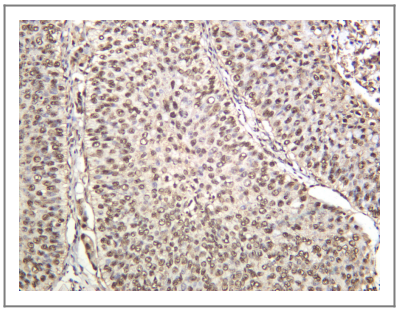
Validation Data



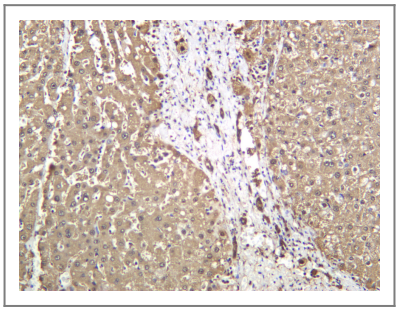
Western Blot analysis using Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-GAPDH PT® Rabbit mAb-YM8394 diluted at 1:20000. Secondary : Dylight 800, Goat Anti Rabbit IgG(RS23920 1:10000)



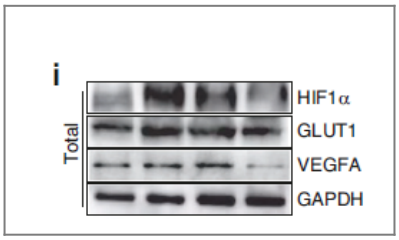
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-GAPDH antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: EL-4-B5 Lane 2: L6 Lane 3: JAR Lane 4: MDCK Lane 5: Cos-7 Predicted band size: 38kDa Observed band size: 38kDa



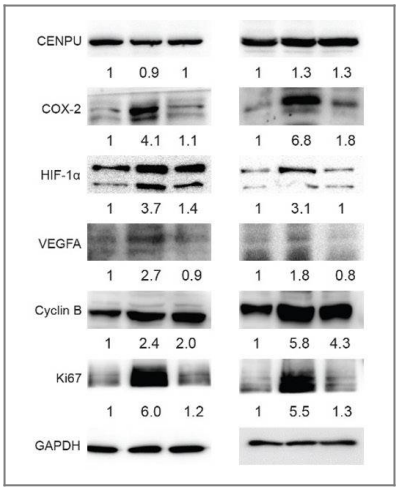
Human bladder carcinoma was stained with anti-GAPDH Rabbit antibody



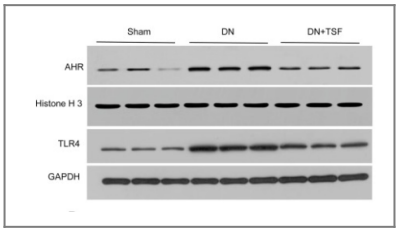
Human liver was stained with anti-GAPDH Rabbit antibody



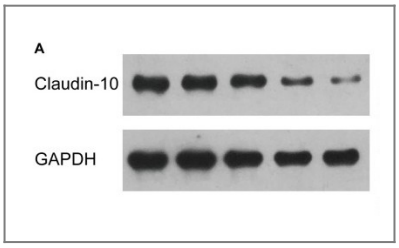
Loss of NDUFS1 promotes gastric cancer progression by activating the mitochondrial ROS-HIF1α-FBLN5 signaling pathway. BRITISH JOURNAL OF CANCER Jin Zhou WB Human 1:5000 MKN45 cell,N87 cell，GES-1 cell,AGS cell,HGC-27 cell,KATO3 cell,SNU-1 cell



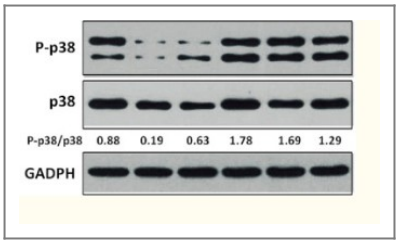
Zhao, Shaorong et al. “Deciphering the performance of polo-like kinase 1 in triple-negative breast cancer progression according to the centromere protein U-phosphorylation pathway.” American journal of cancer research vol. 11,5 2142-2158. 15 May. 2021



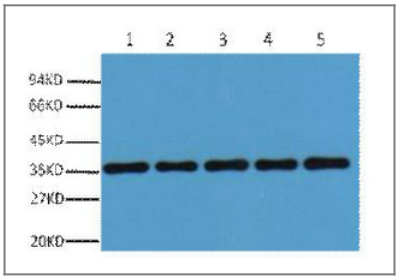
Zhao, TingTing, et al. "Tangshen formula modulates gut Microbiota and reduces gut-derived toxins in diabetic nephropathy rats." Biomedicine & Pharmacotherapy 129 (2020): 110325.



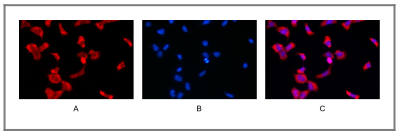
Yi, Sheng, et al. "Peripheral nerve injury induces dynamic changes of tight junction components." Frontiers in physiology9 (2018): 1519.



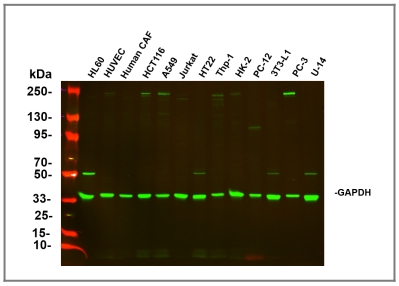
Chang, Ying, et al. "Lentivirus-mediated knockdown of astrocyte elevated gene-1 inhibits growth and induces apoptosis through MAPK pathways in human retinoblastoma cells." PloS one 11.2 (2016): e0148763.



Western blot analysis of 293T (1), Rat brain (2), NIH 3T3 (3), Sheep Muscle (4), Rabbit testis (5), diluted at 1:20000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunofluorescence analysis of HEK293. Picture A: GAPDH antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody(Cat:RS23920) was used to detect the antibody. Lane1: HL60 - Human promyelocytic leukemia cell Lane2: HUVEC - Human umbilical vein endothelial cell Lane3: Human CAF - Human cancer-associated fibroblast Lane4: HCT116 - Human colorectal carcinoma Lane5: A549 - Human lung carcinoma Lane6: Jurkat - Human T lymphocyte leukemia Lane7: HT22 - Mouse hippocampal neuronal Lane8: Thp-1 - Human monocytic leukemia Lane9: HK-2 - Human proximal tubular epithelial Lane10: PC-12 - Rat adrenal pheochromocytoma Lane11: 3T3-L1 - Mouse embryonic fibroblast Lane12: PC-3 - Human prostate adenocarcinoma Lane13: U-14 - Mouse cervical carcinoma Predicted band size: 37kDa Observed band size: 37kDa

Contact information

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	877-594-3616 (Toll Free), 408-747-0185
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information:
GAPDH (PT0582R) PT™ Rabbit mAb