For Research Use Only

HRP-conjugated GAPDH Monoclonal antibody

Catalog Number:HRP-60004 Featured Product 1119 Publications

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Basic Information

Catalog Number:
HRP-60004

Source:
Mouse

Isotype:
IgG2b

GenBank Accession Number:
BC004109

GeneID (NCBI):
2597

UNIPROT ID:
P04406

Full Name:
glyceraldehyde-3-phosphate dehydrogenase

Calculated MW:
36 kDa

Observed MW:
36 kDa

Purification Method:
Antigen affinity purification

CloneNo.:
1E6D9

Recommended Dilutions:
WB: 1:5000-1:50000

Applications

Tested Applications:
WB

Cited Applications:
WB, IHC, IF, IP, CoIP, RIP

Species Specificity:
human, mouse, rat, zebrafish

Cited Species:
human, mouse, rat, monkey, chicken, goat, sheep, yeast, honey bees

Positive Controls:

WB : HeLa cells, mouse brain tissue, HepG2 cells, HEK-293 cells, mouse lung tissue, mouse liver tissue, mouse kidney tissue, mouse heart tissue, mouse thymus tissue, mouse spleen tissue. mouse skin tissue

Background Information

Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the phosphorylation of glyceraldehyde-3-phosphate during glycolysis. GAPDH participates in nuclear events including transcription, binding RNA, RNA transportation, DNA replication, DNA repair and apoptosis. Being stably and constitutively expressed at high levels in most tissues and cells, GAPDH is considered a housekeeping protein. It is widely used as a control for RT-PCR and also loading control in electrophoresis and Western blotting. GAPDH is normally expressed in cellular cytoplasm or membrane, but can occasionally translocate to the nucleus after the addition of post-translational modifications such as S-nitrosylation. This antibody is raised against full length GAPDH of human origin. It can recognize the 36 kDa GAPDH protein in most cells/tissues. In addition, a band below 36 kDa can always be detected as the isoform or spliced product of GAPDH (PMID: 23885286, 23877755, 19368702). Please note that some physiological factors, such as hypoxia and diabetes, increase GAPDH expression in certain cell types.

Notable Publications

Author	Pubmed ID	Journal	Application
Hong-Lin Liu	33102474	Front Cell Dev Biol	WB
Dong Yu	36183792	Brain Res	WB
Jiawei Hao	36126167	Autophagy	WB

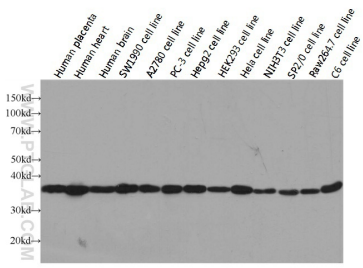
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

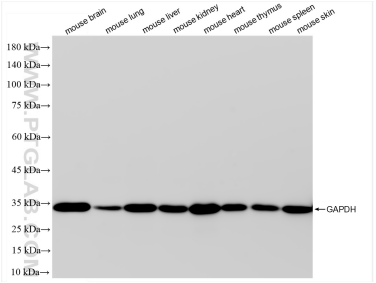
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

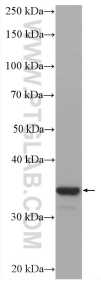
Selected Validation Data



Western blot analysis of GAPDH in various tissues and cell lines using Proteintech antibody HRP-60004 at a dilution of 1:10000.



Various lysates were subjected to SDS PAGE followed by western blot with HRP-60004 (GAPDH antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



HeLa cells were subjected to SDS PAGE followed by western blot with HRP-60004 (GAPDH antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.