

For Research Use Only

GAPDH Monoclonal antibody, PBS Only

Catalog Number: 60004-1-PBS

Featured Product

1 Publications



Basic Information

Catalog Number: 60004-1-PBS	GenBank Accession Number: BC004109	Purification Method: Protein A purification
Concentration: 1mg/ml	GeneID (NCBI): 2597	CloneNo.: 1E6D9
Source: Mouse	UNIPROT ID: P04406	
Isotype: IgG2b	Full Name: glyceraldehyde-3-phosphate dehydrogenase	
Immunogen Catalog Number: AG0766	Calculated MW: 36 kDa	
	Observed MW: 36 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat, pig, zebrafish, yeast, plant

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. For murine tissue samples, conjugated mouse antibody HRP-60004 and rabbit antibody 10494-1-AP are preferable.

Notable Publications

Author	Pubmed ID	Journal	Application
Minshan Tang	39739271	Mol Cell Biochem	WB

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

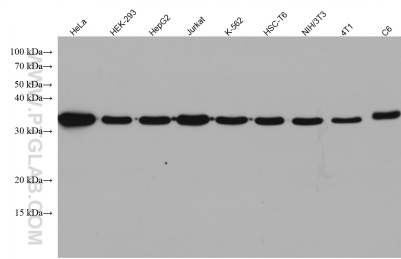
T: 4006900926

E: Proteintech-CN@ptglab.com

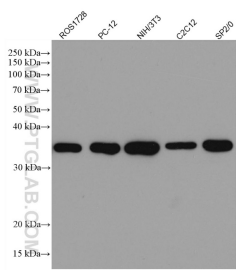
W: ptgcn.com

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

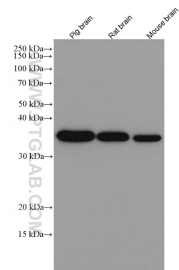
Selected Validation Data



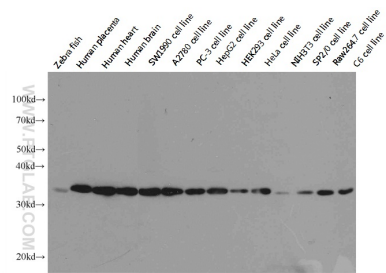
Various lysates were subjected to SDS PAGE followed by western blot with 60004-1-Ig (GAPDH antibody) at dilution of 1:200000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60004-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 60004-1-Ig (GAPDH antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60004-1-PBS in a different storage buffer formulation.

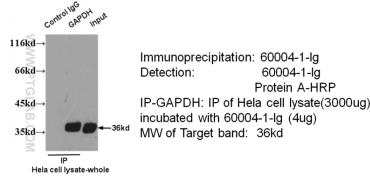


Various lysates were subjected to SDS PAGE followed by western blot with 60004-1-Ig (GAPDH antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60004-1-PBS in a different storage buffer formulation.

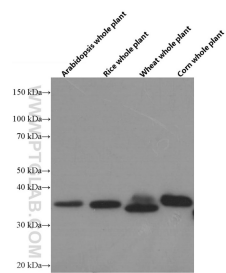


Western blot analysis of GAPDH in various tissues and cell lines using Proteintech antibody 60004-1-Ig at a dilution of 1:10000. This data was developed using the same antibody clone with 60004-1-PBS in a different storage buffer formulation.

IP & WB of 60004-1-Ig with HeLa Cell



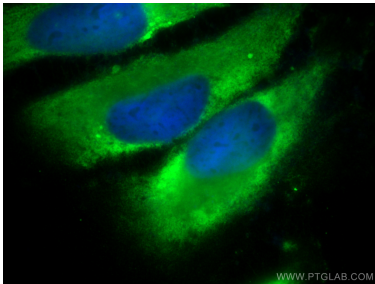
IP result of anti-GAPDH (60004-1-Ig for IP and Detection) with HeLa cell lysate. This data was developed using the same antibody clone with 60004-1-PBS in a different storage buffer formulation.



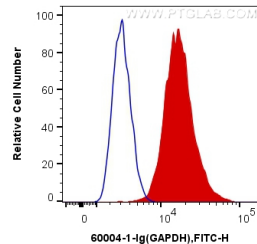
arabidopsis, rice, wheat, corn whole plant tissue were subjected to SDS PAGE followed by western blot with 60004-1-Ig (GAPDH Antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60004-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60004-1-Ig (GAPDH antibody) at dilution of 1:16000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 60004-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60004-1-Ig (GAPDH antibody) at dilution of 1:16000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 60004-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using GAPDH antibody (60004-1-Ig, Clone: 1E6D9) at dilution of 1:800 and Multi-rAb Coralite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). This data was developed using the same antibody clone with 60004-1-PBS in a different storage buffer formulation.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human GAPDH (60004-1-Ig, Clone:1E6D9) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (66360-3-Ig, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 60004-1-PBS in a different storage buffer

