For Research Use Only

GAPDH Monoclonal antibody

Catalog Number:60004-1-lg Featured Product

9875 Publications



Basic Information

Catalog Number: 60004-1-1g	GenBa BC004
Size: 150ul , Concentration: 1000 µg/ml by	<mark>Genel</mark> 2597
Nanodrop;	UNIPR
Source:	P0440
Mouse	Full N
Isotype: IgG2b	glycer dehyd
Immunogen Catalog Number: AG0766	<mark>Calcul</mark> 36 kDa

ank Accession Number: 4109 D (NCBI): ROT ID:)6 lame: raldehyde-3-phosphate drogenase lated MW:)a **Observed MW:**

36 kDa

Purification Method: Protein A purification CloneNo.: 1E6D9

Recommended Dilutions:

WB 1:50000-1:500000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IF 1:200-1:2000 FC 0.40 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications: WB, IP, IF, FC, ELISA

Cited Applications: WB, IP, IF, FC, IHC, CoIP, Cell treatment

Species Specificity:

human, mouse, rat, yeast, plant, zebrafish, pig

Cited Species:

Deer, human, Goat, tick, treeshrew, Cynomorium songaricum, chicken, whiteflies, Yeast, rat

Positive Controls:

WB : HeLa cells, HepG2 cells, ROS1728 cells, pig brain tissue, zebrafish tissue, whole yeast, whole Nematode tissue, soybean whole plant tissue, arabidopsis whole plant tissue, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, C6 cells, PC-12 cells, C2C12 cells, SP2/0 cells, rat brain tissue, mouse brain tissue

IP: HeLa Cells.

IF : Ethacrynic acid treated HeLa cells,

FC : HeLa cells.

Background Information

Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the phosphorylation of glyceraldehyde-3phosphate 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
Yuying Wang	36183783	Chem Biol Interact	WB
Xin Shen	36184549	Int Heart J	WB
Yueke Lin	36178239	EMBO Rep	WB,IP

Storage

Storage:

W: ptglab.com

Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage

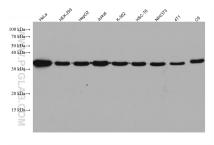
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

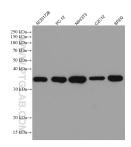
E: proteintech@ptglab.com

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

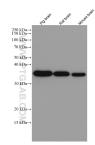
Selected Validation Data



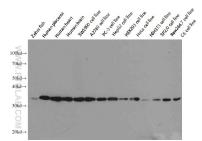
Various lysates were subjected to SDS PAGE followed by western blot with 60004-1-Ig (GAPDH antibody) at dilution of 1:200000 incubated at room temperature for 1.5 hours.



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.



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.



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

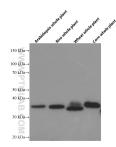
IP & WB of 60004-1-lg with HeLa Cell

IP result of anti-GAPDH (60004-1-Ig for IP and

Detection) with HeLa cell lysate.



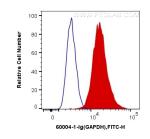
Immunoprecipitation: 60004-1-Ig Detection: 60004-1-Ig Protein A-HRP IP-GAPDH: IP of Hela cell lysate(3000ug) incubated with 60004-1-Ig (4ug) ^d MW of Target band: 36kd



arabidopsis, rice, wheat, corn whole plant tissue were subjected to SDS PAGE followed by western blot with 60004-1-1g (GAPDH Antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of EA treated HeLa cells using 60004-1-Ig(GAPDH antibody) at dilution of 1:50 and Rhodamine-labeled goat anti-mouse IgG (red).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human GAPDH (60004-1-1g, 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 (66360-3-1g, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).