For Research Use Only

GAPDH Monoclonal antibody

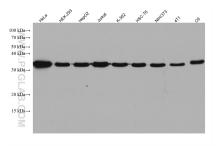
Catalog Number:60004-1-lg Featured Product 12706 Publications



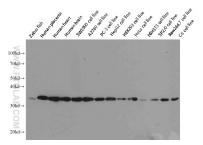
Basic Information	Catalog Number: 60004-1-Ig	GenBank Accession Number: BC004109		Purification Method: Protein A purification	
	Concentration: GeneID (NCBI): 1000 μ g/ml 2597		:	CloneNo.: 1E6D9	
	Source: Mouse	UNIPROT ID: P04406		Recommended Dilutions: WB 1:50000-1:500000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IF/ICC 1:400-1:1600	
	Isotype: IgG2b Immunogen Catalog Number: AG0766	Full Name: glyceraldehyd dehydrogenase			
		Calculated MM 36 kDa			
		Observed MW: 36 kDa			
Applications	Tested Applications:		Positive Co	Positive Controls:	
	WB, IF/ICC, FC (Intra), IP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP, ELISA Species Specificity: human, mouse, rat, pig, zebrafish, yeast, plant Cited Species:		tissue, zebr. tissue, soyb plant tissue HSC-T6 cell cells, C2C1: brain tissue	WB: HeLa cells, HepG2 cells, ROS1728 cells, pig brain tissue, zebrafish tissue, whole yeast, whole Nematoc tissue, soybean whole plant tissue, arabidopsis whol plant tissue, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, C6 cells, PC-1: cells, C2C12 cells, SP2/0 cells, rat brain tissue, mous brain tissue	
	human, rat, chicken, goat, yeast, deer, whiteflies, tick, treeshrew, cynomorium songaricum			IP : HeLa Cells,	
			IF/ICC : Hel	IF/ICC : HeLa cells,	
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	
	Yuying Wang	36183783	Chem Biol Interact		
	Xin Shen	36184549	Int Heart J	WB	
	Yueke Lin	36178239	EMBO Rep	WB,IP	
	Storage:				

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

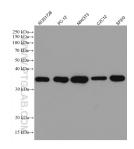
Selected Validation Data



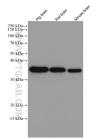
Various lysates were subjected to SDS PAGE followed by western blot with 60004-1-lg (GAPDH antibody) at dilution of 1:200000 incubated at room temperature for 1.5 hours.



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



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.

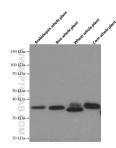
IP & WB of 60004-1-Ig with HeLa Cell

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

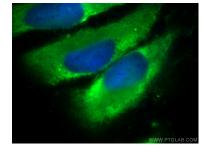
Detection) with HeLa cell lysate.



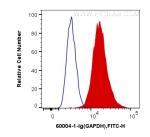
Immunoprecipitation: 60004-1-Ig Detection: 60004-1-Ig Protein A-HRP IP-GAPDH: IP of Hela cell lysate(3000ug) incubated with 60004-1-Ig (4ug) ^d MW of Target band: 36kd



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 (-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).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human GAPDH (60004-1-lg, Clone:1E6D9) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (66360-3-lg, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).