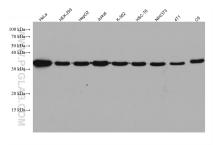
For Research Use Only

GAPDH Monoclonal antibody Catalog Number:60004-1-Ig Featured Product 12662 Publications

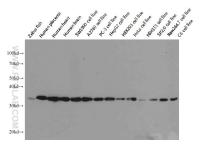


Basic Information	Catalog Number: 60004-1-Ig	GenBank Accession Number: BC004109 GeneID (NCBI): y 2597		Purification Method: Protein A purification	
	Size: 150ul , Concentration: 1000 ug/ml by Nanodrop; Source: Mouse Isotype: IgG2b Immunogen Catalog Number: AG0766			CloneNo.: 1E6D9	
		UNIPROT ID: P04406 Full Name:		Recommended Dilutions: WB 1:50000-1:500000 IP 0.5-4.0 ug for 1.0-3.0 mg of total	
		glyceraldehyde-3-pl dehydrogenase	nosphate	protein lysate IF/ICC 1:400-1:1600	
		Calculated MW: 36 kDa Observed MW: 36 kDa			
Applications	Tested Applications: WB, IF/ICC, FC (Intra), IP, ELISA			ve Controls:	
	Cited Applications: WB, IHC, IF, IP, CoIP, ELISA Species Specificity: human, mouse, rat, pig, zebrafish, yeast, plant		WB : HeLa cells, HepG2 cells, ROS1728 cells, pig brair tissue, zebrafish tissue, whole yeast, whole Nematod 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-1 cells, C2C12 cells, SP2/0 cells, rat brain tissue, mous brain tissue		
	Cited Species: canine, chicken, bovine, branchiostoma belcheri,				
	caenorhabditis elegans, arabidopsis, bombyx mori, cho cell line, cynomorium songaricum, d. pulex		IP : HeLa Cells,		
			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 Pub	med ID Jour	nal	Application	
Notable Publications			mal m Biol Interact	Application WB	
Notable Publications	Yuying Wang 361	83783 Che			
Notable Publications	Yuying Wang 361 Xin Shen 361	83783 Che 84549 Int F	m Biol Interact	WB	
Notable Publications Storage	Yuying Wang361Xin Shen361Yueke Lin361Yueke Lin361Storage: Storage at -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 50°	83783 Che 84549 Int H 78239 EMB er shipment.	m Biol Interact Ieart J	WB WB	
	Yuying Wang 361 Xin Shen 361 Yueke Lin 361 Storage: 361 Storage: 350 Storage: 350 Storage: 350 Storage: 350 Storage: 361	83783 Che 84549 Int H 78239 EMB er shipment.	m Biol Interact Ieart J	WB WB	

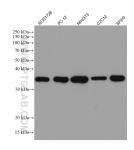
Selected Validation Data



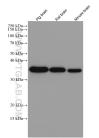
Various lysates were subjected to SDS PAGE followed by western blot with 60004-1-Ig (GAPDH antibody) at dilution of 1:200000 incubated at room temperature for 1.5 hours.



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 60004-1-1g (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.

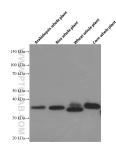
IP & WB of 60004-1-Ig with HeLa Cell

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

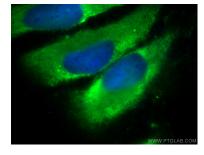
Detection) with HeLa cell lysate.



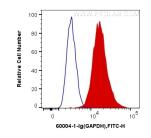
Immunoprecipitation: 60004-1-Ig Detection: 60004-1-Ig Protein A-HRP IP-GAPDH: IP of Hela cell lysate(3000ug) incubated with 60004-1-Ig (4ug) ⁴⁴ MW of Target band: 36kd



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).