## For Research Use Only

## Beta Actin Monoclonal antibody

Catalog Number:66009-1-lg Featured Product 7686 Publications



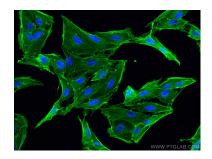
	Catalog Number: 66009-1-lg	NM_001101	sion Number:	Purification Method: Protein A purification	
	Concentration:	GenelD (NCBI):		CloneNo.:	
	1000 ug/ml	60		2D4H5	
	Source: Mouse	UNIPROT ID: P60709		Recommended Dilutions: WB: 1:20000-1:100000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total	
	Isotype:	Full Name:			
	IgG2b	actin, beta		protein lysate IHC: 1:20-1:2000	
		Calculated MW 42 kDa	t:	IFL: 1:200-1:2000 IF-P: 1:500-1:2000 IF/ICC: 1:500-1:2000 FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension	
		Observed MW:			
		42 kDa			
Applications	Cited Applications: pancreas,		ntrols:		
			WB: HeLa c	WB: HeLa cells, A549 cells, Jurkat cells, mouse pancreas, rat brain, rat pancreas, HEK-293 cells, HepG2 cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, CHO cells, HSC-T6 cells. NIH/3T3 cells, Pig brair Rabbit brain, Mouse brain, Chicken brain IP: HeLa cells,	
			•		
	Species Specificity:				
	human, mouse, rat, pig, rabbit, canine, monkey, chicken, zebrafish, hamster		Rabbit brai		
			IP:HeLa ce		
	Cited Species: human, mouse, rat, chicken, goat, sheep, aedes			IHC : human kidney tissue, human brain tissue, huma colon cancer tissue, human heart tissue	
	albopictus, arabidopsis, golden hamsters, cat		IF-P: mous	IF-P : mouse brain tissue,	
	Note-IHC: suggested antigen retrieval with <b>TE buffer pH 9.0;</b> (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IF/ICC : MD	IF/ICC : MDCK cells, HeLa cells	
			FC (Intra) :	FC (Intra) : HeLa cells,	
	buffer pH 6.0				
Background Information	Actins are highly conserved expressed in all eukaryotic (ACTC1, cardiac muscle 1), gamma 1 (ACTG1) and 2 (A Most actins consist of 376a only 374aa. Beta actin has protein. However, the 41 kC	cells. At least six isoform: alpha 1 (ACTA1, skeletal r CTG2, enteric smooth mus a, while ACTG2 (rich in mu been widely used as the in ba cleaved fragment of bet the actins. The isotype of t	e involved in variou s of actins are know muscle) and 2 (ACT/ scle). Beta and gamr iscles) has 375aa ar tternal control in RT ta actin can be gene his antibody is IgG2	s types of cell motility and are ubiquitousl	
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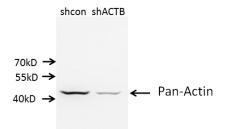
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926

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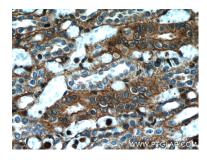
## Selected Validation Data



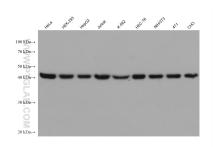
Immunofluorescent analysis of (-20°C Methanol) fixed MDCK cells using Beta Actin antibody (66009-1-lg, Clone: 2D4H5) at dilution of 1:1000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



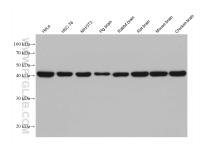
A549 cells (shcontrol and shRNA of Beta Actin) were subjected to SDS PAGE followed by western blot with 66009-1-Ig (Mouse anti Pan-actin antibody) at dilution of 1:10000. IP result of anti-Beta Actin (IP:66009-1-Ig, 3ug; Detection:66009-1-Ig 1:10000) with HeLa cells lysate 3100ug.



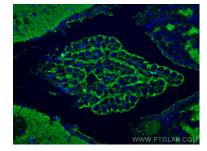
Immunohistochemical analysis of paraffinembedded human kidney using 66009-1-lg at dilution of 1:500 (under 40x lens).



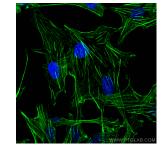
Various lysates were subjected to SDS PAGE followed by western blot with 66009-1-1g (Beta Actin antibody) at dilution of 1:200000 incubated at room temperature for 1.5 hours.



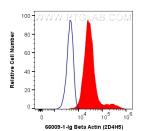
Various lysates were subjected to SDS PAGE followed by western blot with 66009-1-Ig (Beta Actin antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using Beta Actin antibody (66009-1-1g, Clone: 2D4H5) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MDCK cells using Beta Actin antibody (66009-1-Ig, Clone: 2D4H5) at dilution of 1:3000 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 Beta Actin (66009-1-1g, Clone:2D4H5) and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-1g, Clone: MPC-11) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).