## CoraLite®594-conjugated Beta Actin proteintech Monoclonal antibody

Catalog Number:CL594-66009 16 Publications

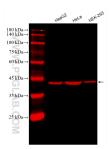
Basic Information	Catalog Number: CL594-66009	NM_001101	cession Number:	Purification Method: Protein A purification
	Size:	Genel D (NC	BI):	CloneNo.:
	1000 µg/ml	60		2D4H5
	Source:	UNIPROT ID	t:	Recommended Dilutions: WB 1:500-1:2000 IF 1:50-1:500
	Mouse	P60709		
	Isotype: IgG2b	Full Name: actin, beta		Excitation/Emission maxima wavelengths: 588 nm / 604 nm
		Calculated	MW:	
		42 kDa		
Applications	Tested Applications:			
	FC (Intra), IF/ICC, WB WB : Hep		2 cells, HeLa cells, HEK-293 cells	
	Cited Applications: WB	d Applications: IF : MDCK cells, HepG2 cells		
	Species Specificity: human, mouse, rat, hamster, zebrafish, monkey, canine			
	Cited Species: human, rat, mouse			
	Actins are highly conserved globular proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. At least six isoforms of actins are known in mammals and other vertebrates: alpha (ACTC1, cardiac muscle 1), alpha 1 (ACTA1, skeletal muscle) and 2 (ACTA2, aortic smooth muscle), beta (ACTB), gamma 1 (ACTG1) and 2 (ACTG2, enteric smooth muscle). Beta and gamma 1 are two non-muscle actin proteins. Most actins consist of 376aa, while ACTG2 (rich in muscles) has 375aa and ACTG1(found in non-muscle cells) has only 374aa. Beta actin has been widely used as the internal control in RT-PCR and Western Blotting as a 42-kDa protein. However, the 41 kDa cleaved fragment of beta actin can be generated during apoptosis process.This antibody can recognize all the actins. The isotype of this antibody is IgG2b. And the anitbody is CL594(Ex/Em 593 nm/614 nm) conjugated.			
Background Information	(ACTC 1, cardiac muscle 1) gamma 1 (ACTG 1) and 2 ( Most actins consist of 376 only 374aa. Beta actin has protein. However, the 41 k antibody can recognize al	c cells. At least six isofo , alpha 1 (ACTA1, skelet ACTG2, enteric smooth n aa, while ACTG2 (rich in been widely used as the Da cleaved fragment of	orms of actins are know tal muscle) and 2 (AC nuscle). Beta and gam muscles) has 375aa a e internal control in R beta actin can be gen	wn in mammals and other vertebrates: alph FA2, aortic smooth muscle), beta (ACTB), ima 1 are two non-muscle actin proteins. nd ACTG1(found in non-muscle cells) has T-PCR and Western Blotting as a 42-kDa erated during apoptosis process.This
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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.

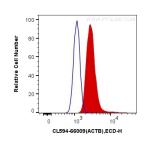
Antibodies | ELISA kits | Proteins

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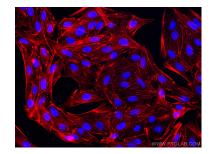
## Selected Validation Data



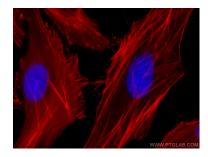
Various lysates were subjected to SDS PAGE followed by western blot with CL594-66009 (Beta Actin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1X10^6 A431 cells were intracellularly stained with 0.8 ug CoraLite®594 Anti-Human Beta Actin (CL594-66009, Clone:2D4H5) (red), or 0.8 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Methanol) fixed MDCK cells using CoraLite® 594 Beta Actin antibody (CL594-66009, Clone: 2D4H5) at dilution of 1:200.



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CoraLite®594 Beta Actin antibody (CL594-66009, Clone: 2D4H5 ) at dilution of 1:200.