## For Research Use Only

## CoraLite® Plus 488-conjugated Beta Actin Monoclonal antibody



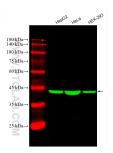
Catalog Number:CL488-66009 Featured Product

6 Publications

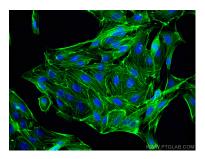
Basic Information	Catalog Number: CL488-66009	GenBank Accession Number NM_001101	er: Purification Method: Protein A purification	
	Size: 1000 µg/ml	GenelD (NCBI): 60	CloneNo.: 2D4H5	
	Source: Mouse	UNIPROT ID: P60709	Recommended Dilutions: WB 1:2000-1:10000 IF/ICC 1:50-1:500	
	Isotype: IgG2b	Full Name: actin, beta	Excitation/Emission maxima	
		Calculated MW: 42 kDa	wavelengths: 493 nm / 522 nm	
Applications	Tested Applications:	Pos	Positive Controls:	
	WB, IF/ICC, FC (Intra)	WB	WB : HepG2 cells, HeLa cells, HEK-293 cells	
	Cited Applications: WB, IF		ICC : MDCK cells, U2OS cells	
	Species Specificity: human, mouse, rat, canine, monkey, zebrafish, hamster			
	Cited Species: human, mouse, rat			
Background Information	Actins are highly conserved globular proteins that are involved in various types of cell motility and are ubiquitous expressed in all eukaryotic cells. At least six isoforms of actins are known in mammals and other vertebrates: alpl (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 CL488 (Ex/Em 488 nm/515 nm) conjugated.			
	protein. However, the 41 kI antibody can recognize all	Da cleaved fragment of beta actin can	be generated during apoptosis process. This	
Notable Publications	protein. However, the 41 kI antibody can recognize all	Da cleaved fragment of beta actin can	be generated during apoptosis process. This	
Notable Publications	protein. However, the 41 kI antibody can recognize all nm/515 nm) conjugated.	Da cleaved fragment of beta actin can the actins. The isotype of this antibod	be generated during apoptosis process.This y is IgG2b. And the anitbody is CL488 (Ex/Em 488 Application	
Notable Publications	protein. However, the 41 kI antibody can recognize all nm/515 nm) conjugated. Author	Da cleaved fragment of beta actin can the actins. The isotype of this antibod Pubmed ID Journal	be generated during apoptosis process.This y is IgG2b. And the anitbody is CL488 (Ex/Em 488 Application acol WB	
Notable Publications	protein. However, the 41 kI antibody can recognize all nm/515 nm) conjugated. Author Xueli Yu	Da cleaved fragment of beta actin can the actins. The isotype of this antibod Pubmed ID Journal 36106568 Br J Pharma	be generated during apoptosis process.This y is IgG2b. And the anitbody is CL488 (Ex/Em 488 Application acol WB Inflamm WB	

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.

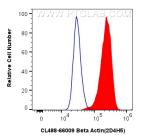
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL488-66009 (Beta Actin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed MDCK cells using CoraLite® Plus 488 Beta Actin antibody (CL488-66009, Clone: 2D4H5) at dilution of 1:200.



(blue)1x10^6 HeLa cells were intracellularly stained with 0.8 ug CoraLite® Plus 488 Anti-Human Beta Actin (CL488-66009, Clone:2D4H5)(red), or 0.8 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).