For Research Use Only

Beta Actin Polyclonal antibody

Catalog Number:20536-1-AP

Featured Product

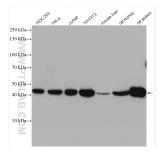
4292 Publications



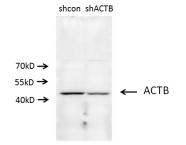
Basic Information	Catalog Number: 20536-1-AP	GenBank Accession Number: BC002409		Purification Method: Antigen affinity purification	
	Concentration: 600 ug/ml	Genel D (NCBI): 60		Recommended Dilutions: WB 1:4000-1:10000	
	Source:	UNIPROT ID:		IHC 1:50-1:500	
	Rabbit	P60709		IF/ICC 1:200-1:800	
	Isotype: IgG Immunogen Catalog Number: AG14521	Full Name: actin, beta			
		Calculated MW: 375 aa, 42 kDa			
		Observed MW: 42 kDa			
Applications	Tested Applications: WB, IHC, IF/ICC, ELISA			Positive Controls:	
	Cited Applications: WB, IHC, IF, IP, CoIP, ELISA Species Specificity: human, mouse, rat, canine, monkey		WB : HEK-293 cells, A549 cells, C6 cells, mouse colon tissue, Caco-2 cells, RAW 264.7 cells, SMMC-7721 cells Hela cells, HepG2 cells, Jurkat cells, mouse brain		
			HeLa cells, HepG2 cells, Jurkat cells, mouse brain tissue, rat brain tissue, NIH/3T3 cells, mouse liver		
			tissue, rat kidney tissue, rat spleen tissue, rat liver tissue		
	Cited Species: human, mouse, rat, chicken, goat, sheep, yeast,		IHC : human colon tissue, human kidney tissue		
	ochotona curzoniae, camelus bactrianus, carp		IF/ICC : MDCK cells,		
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
	Beta Actin, also named as ACTB and F-Actin, belongs to the actin family. 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 37-40, 31, 15 kDa cleaved fragment of beta actin can be generated during apoptosis process. This antibody was generated against N-terminal region of human beta actin protein and can cross-react with other actins. (9173887, 11217076, 10229193)				
Background Information	ACTG2 (rich in muscles) has 375a widely used as the internal control (ACTA1, skeletal muscle) and 2 (<i>i</i> enteric smooth muscle). Beta and ACTG2 (rich in muscles) has 375a widely used as the internal contro kDa cleaved fragment of beta act	bus types of cell motilit own in mammals and o ACTA2, aortic smooth m gamma 1 are two non-r a and ACTG1(found in r ol in RT-PCR and Wester in can be generated dur	y and are ubiquit other vertebrates: uscle), beta (ACT muscle actin proto non-muscle cells) n Blotting as a 42 ing apoptosis pro	ously expressed in all eukaryotic cells. At alpha (ACTC1, cardiac muscle 1), alpha 1 B), gamma 1 (ACTG1) and 2 (ACTG2, eins. Most actins consist of 376aa, while has only 374aa. Beta actin has been -kDa protein. However, the 37-40, 31, 15 cess. This antibody was generated against	
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

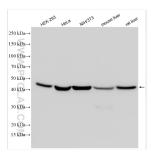
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20536-1-AP (beta Actin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



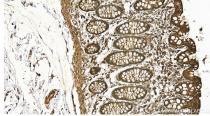
A549 cells (shcontrol and shRNA of Beta actin) were subjected to SDS PAGE followed by western blot with 20536-1-AP (ACTB antibody) at dilution of 1:500.



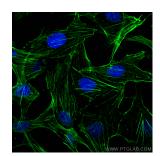
Various lysates were subjected to SDS PAGE followed by western blot with 20536-1-AP (Beta Actin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human normal colon slide using 20536-1-AP (Beta Actin antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human normal colon slide using 20536-1-AP (Beta Actin antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MDCK cells using Beta Actin antibody (20536-1-AP) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).