## Beta Actin Recombinant antibody, PBS Only



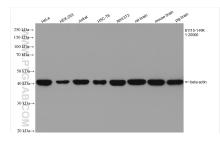
Catalog Number:81115-1-PBS

Basic Information	Catalog Number: 81115-1-PBS	GenBank Accession Number: BC002409	Purification Method: Protein A purification
	Size: 100ug , Concentration: 1mg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG14521	GeneID (NCBI): 60 UNIPROT ID: P60709 Full Name: actin, beta Calculated MW: 375 aa, 42 kDa Observed MW: 42 kDa	CloneNo.: 4H1
Applications	Tested Applications: WB, IF, IHC, Indirect ELISA Species Specificity: Human, pig, rat, mouse		
Background Information	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 protein and can cross-react with other actins. (9173887, 11217076, 10229193 )		
Storage	Storage: Store at -80°C. Storage Buffer: PBS Only		

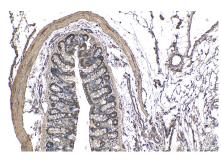
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

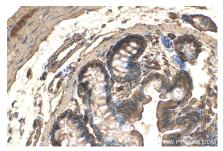
## Selected Validation Data



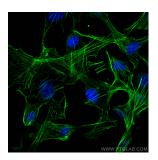
Various lysates were subjected to SDS PAGE followed by western blot with 81115-1-RR (beta actin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81115-1-PBS in a different storage buffer formulation.



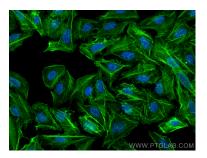
Immunohistochemical analysis of paraffinembedded rat colon tissue slide using 81115-1-RR (Beta Actin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81115-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded rat colon tissue slide using 81115-1-RR (Beta Actin antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81115-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed MDCK cells using Beta Actin antibody (81115-1-RR, Clone: 4H1) at dilution of 1:4000 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). This data was developed using the same antibody clone with 81115-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using beta actin antibody (81115-1-RR, Clone: 4H1) at dilution of 1:1900 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 81115-1-PBS in a different storage buffer formulation.