

For Research Use Only

Beta Actin Recombinant monoclonal antibody

Catalog Number: 81119-1-RR



Basic Information

Catalog Number: 81119-1-RR	GenBank Accession Number: BC002409	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 60	CloneNo.: 1E19
Source: Rabbit	UNIPROT ID: P60709	Recommended Dilutions: WB: 1:5000-1:50000 IF/ICC: 1:250-1:1000
Isotype: IgG	Full Name: actin, beta	
Immunogen Catalog Number: AG14521	Calculated MW: 375 aa, 42 kDa	
	Observed MW: 42 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls: WB : HeLa cells, HEK-293 cells, Jurkat cells, NIH/3T3 cells, HSC-T6 cells, mouse brain tissue, rat brain tissue
Species Specificity: human, mouse, rat	IF/ICC : U2OS cells,

Background Information

Beta Actin, a 42-kDa protein encoded by the ACTB gene, is a highly conserved, ubiquitous protein that forms microfilaments, making it a major component of the cell's cytoskeleton and contractile apparatus. It plays essential roles in cell structure, growth, motility, and intracellular transport, and it's also involved in gene expression regulation by associating with chromatin remodeling complexes. Due to its stable and constitutive expression across different tissues and under most experimental conditions, beta-actin is extensively utilized as an internal loading control in molecular biology techniques, including Western blotting, quantitative PCR (qPCR), and immunohistochemistry, for normalizing gene and protein expression data. Based on epitope identification, this antibody specifically recognizes ACTB and does not exhibit cross-reactivity with ACTA1/ACTA2.

Storage

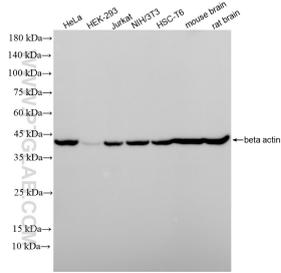
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

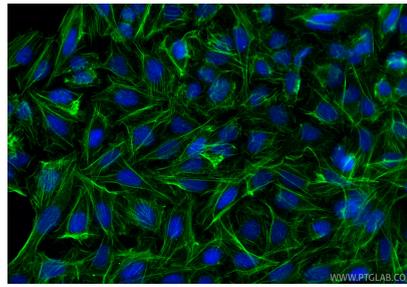
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 81119-1-RR (beta actin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using Beta Actin antibody (81119-1-RR, Clone: 1E19) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).