

For Research Use Only

Beta Actin Recombinant monoclonal antibody, PBS Only

Catalog Number: 81119-1-PBS



Basic Information

Catalog Number: 81119-1-PBS	GenBank Accession Number: BC002409	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 60	CloneNo.: 1E19
Isotype: IgG	UNIPROT ID: P60709	
Immunogen Catalog Number: AG14521	Full Name: actin, beta	
	Calculated MW: 375 aa, 42 kDa	
	Observed MW: 42 kDa	

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
human, mouse, rat

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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

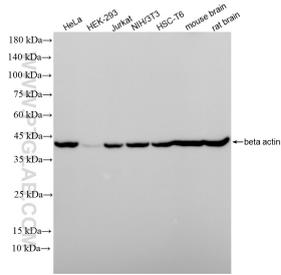
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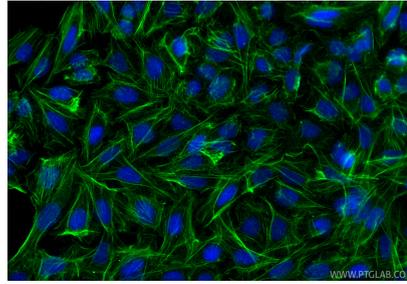
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Selected Validation Data



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. This data was developed using the same antibody clone with 81119-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 81119-1-PBS in a different storage buffer formulation.