

For Research Use Only

Beta Actin Recombinant monoclonal antibody

Catalog Number: 81119-1-RR



Basic Information

Catalog Number:

81119-1-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14521

GenBank Accession Number:

BC002409

GeneID (NCBI):

60

UNIPROT ID:

P60709

Full Name:

actin, beta

Calculated MW:

375 aa, 42 kDa

Observed MW:

42 kDa

Purification Method:

Protein A purification

CloneNo.:

1E19

Recommended Dilutions:

WB: 1:5000-1:50000

IF/ICC: 1:250-1:1000

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HeLa cells, HEK-293 cells, Jurkat cells, NIH/3T3 cells, HSC-T6 cells, mouse brain tissue, rat brain tissue

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

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

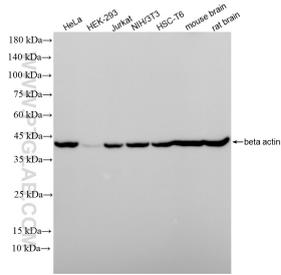
T: 4006900926

E: Proteintech-CN@ptglab.com

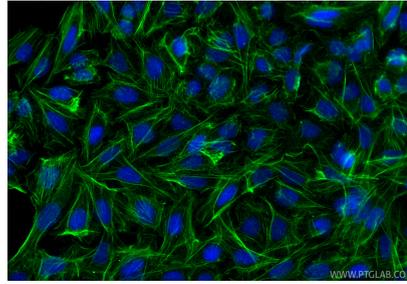
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Selected Validation Data



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).