

AC004

Leader in Biomolecular Solutions for Life Science



## β-Actin Mouse mAb

Catalog No.: AC004

344 Publications

### Basic Information

#### Observed MW

42kDa

#### Calculated MW

42kDa

#### Category

Mouse Monoclonal Antibody

#### Applications

WB, IHC-P, IF/ICC, ELISA

#### Cross-Reactivity

Human, Mouse, Rat

#### CloneNo number

AMC0001

### Background

This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, integrity, and intercellular signaling. The encoded protein is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins that are ubiquitously expressed. Mutations in this gene cause Baraitser-Winter syndrome 1, which is characterized by intellectual disability with a distinctive facial appearance in human patients. Numerous pseudogenes of this gene have been identified throughout the human genome.

### Recommended Dilutions

WB	1:2000 - 1:20000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

### Immunogen Information

#### Gene ID

60

#### Swiss Prot

P60709

#### Immunogen

Fusion protein of human β-Actin

#### Synonyms

BRWS1; PS1TP5BP1; β-Actin

### Contact



[www.abclonal.com](http://www.abclonal.com)

### Product Information

#### Source

Mouse

#### Isotype

IgG1, Kappa

#### Purification

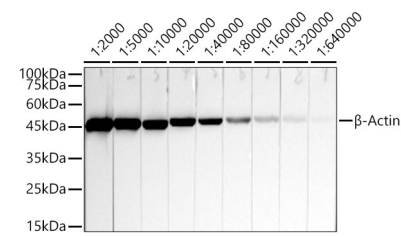
Affinity purification

#### Storage

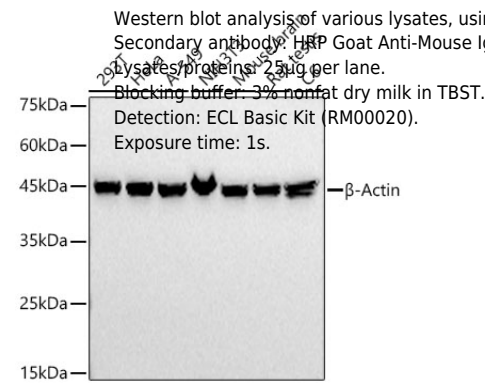
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

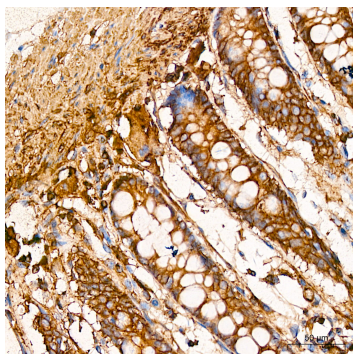
Validation Data



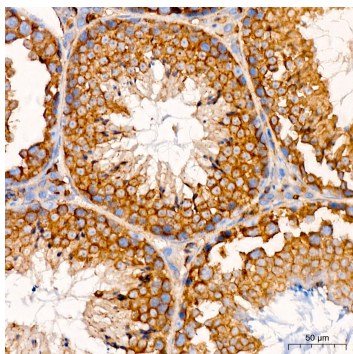
Western blot analysis of lysates from HeLa cells, using  $\beta$ -Actin Mouse mAb (AC004) at 1:2000- 1:640000 dilution.  
Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.  
Lysates/proteins: 25 $\mu$ g per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 10s.



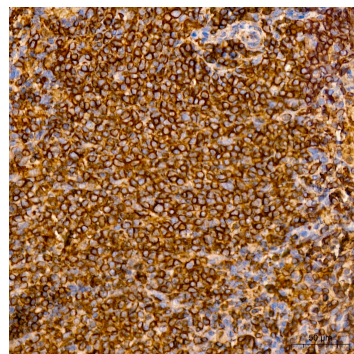
Western blot analysis of various lysates, using  $\beta$ -Actin Mouse mAb (AC004) at 1:20000 dilution.  
Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.  
Lysates/proteins: 25 $\mu$ g per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 1s.



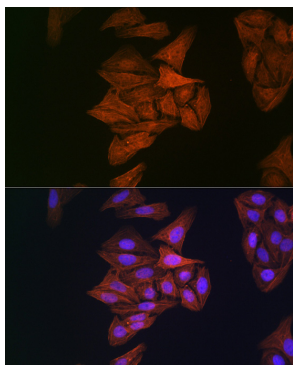
Immunohistochemistry analysis of  $\beta$ -Actin in paraffin-embedded human colon tissue using  $\beta$ -Actin Mouse mAb (AC004) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of  $\beta$ -Actin in paraffin-embedded mouse testis tissue using  $\beta$ -Actin Mouse mAb (AC004) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of  $\beta$ -Actin in paraffin-embedded rat spleen tissue using  $\beta$ -Actin Mouse mAb (AC004) at a dilution of 1:200 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



## Validation Data

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Immunofluorescence analysis of U2OS cells using  $\beta$ -Actin Mouse mAb (AC004) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.