

AC004

Leader in Biomolecular Solutions for Life Science



# $\beta$ -Actin Mouse mAb

Catalog No.: AC004 **439 Publications**

## Basic Information

### Observed MW

42kDa

### Calculated MW

42kDa

### Category

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

<b>WB</b>	1:5000-1:160000
<b>IHC-P</b>	1:50 - 1:200
<b>IF/ICC</b>	1:50 - 1:200
<b>ELISA</b>	Recommended starting concentration is 1 $\mu$ g/mL. Please optimize the concentration based on your specific assay requirements.

## Contact

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

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
60	P60709

### Immunogen

Fusion protein of human  $\beta$ -Actin

### Synonyms

BRWS1; PS1TP5BP1;  $\beta$ -Actin

## Product Information

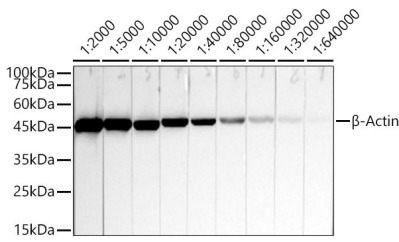
<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Mouse	IgG1,Kappa	Affinity purification

### Storage

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

Buffer: PBS with 0.05% proclin300,50% 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.

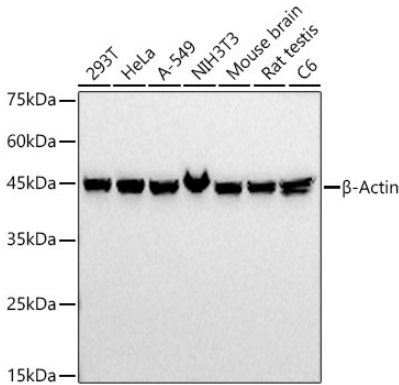
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.

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.

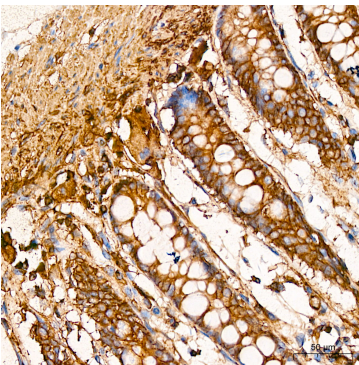
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.

Lysates/proteins: 25 $\mu$ g per lane.

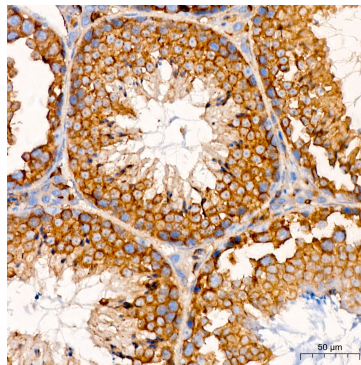
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

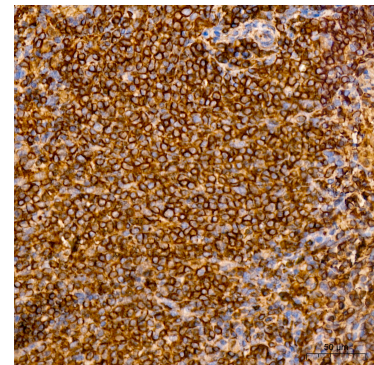
Exposure time: 1s.



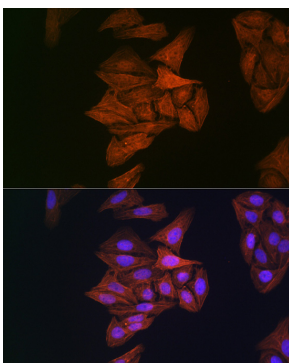
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using  $\beta$ -Actin Mouse mAb (AC004) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



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



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using  $\beta$ -Actin Mouse mAb (AC004) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (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.