

# $\beta$ -Actin Mouse mAb

Catalog No.: AC004 **351 Publications**

## Basic Information

**Observed MW**

42kDa

**Calculated MW**

42kDa

**Category**

Loading control antibody

**Applications**

ELISA, WB, IHC-P, IF/ICC

**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>	1:2000 - 1:20000
<b>IHC-P</b>	1:50 - 1:200
<b>IF/ICC</b>	1:50 - 1:200

## Immunogen Information

**Gene ID**

60

**Swiss Prot**

P60709

**Immunogen**Fusion protein of human  $\beta$ -Actin**Synonyms**BRWS1; PS1TP5BP1;  $\beta$ -Actin

## Contact

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## Product Information

**Source**

Mouse

**Isotype**

IgG1, Kappa

**Purification**

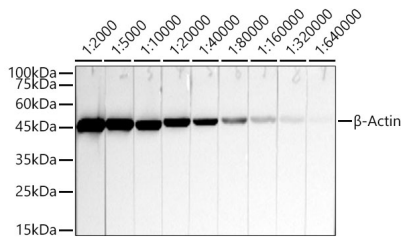
Affinity purification

**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.

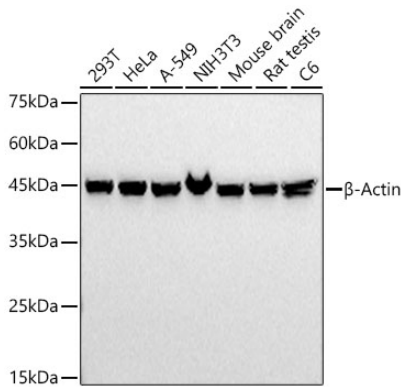
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.

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.

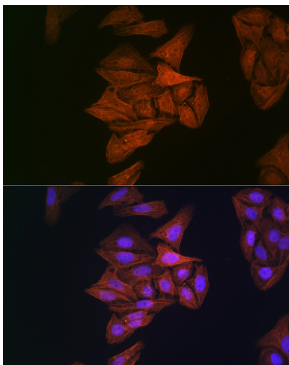
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.

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

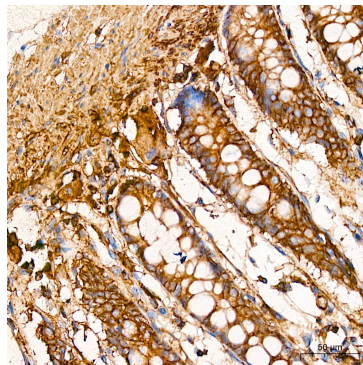
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

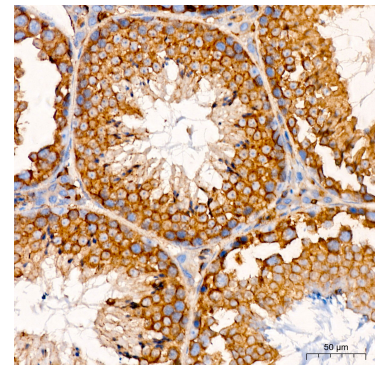
Exposure time: 1s.



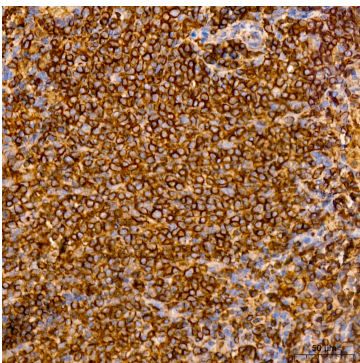
Immunofluorescence analysis of U2OS cells using  $\beta$ -Actin Mouse mAb (AC004) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



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.



## Validation Data

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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.