

# β-Actin Rabbit mAb

Catalog No.: AC038 **Recombinant** **315 Publications**

## Basic Information

### Observed MW

42 kDa

### Calculated MW

42 kDa

### Category

Loading control antibody

### Applications

WB,Auto WB,IHC-P,ELISA

### Cross-Reactivity

Human, Mouse, Rat, Chicken, Zebrafish, Pig

### CloneNo number

ARC5115-01

## 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** 1:10000 - 1:100000

**Auto WB** 1:100 - 1:500

**IHC-P** 1:400 - 1:5000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

60

### Swiss Prot

P60709

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

BRWS1; PS1TP5BP1; β-Actin

## Contact

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

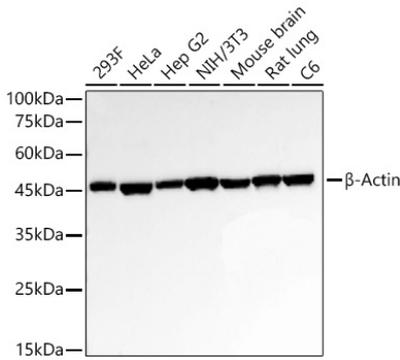
Affinity purification

### Storage

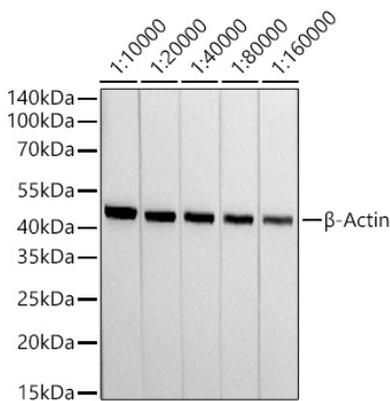
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

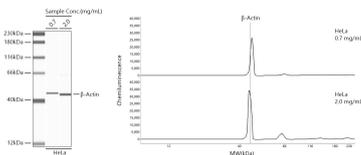
## Validation Data



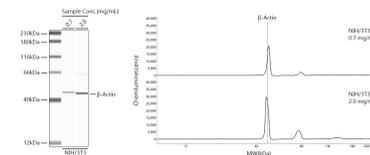
Western blot analysis of various lysates using  $\beta$ -Actin Rabbit mAb (AC038) at 1:50000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25  $\mu$ g per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 10s.



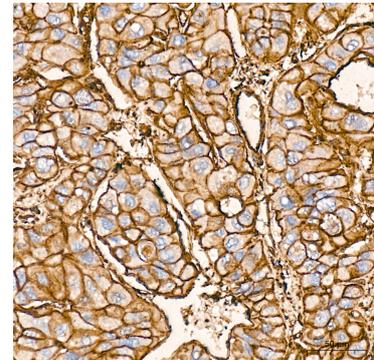
Western blot analysis of lysates from HeLa cells using  $\beta$ -Actin Rabbit mAb (AC038) at 1:10000-1:160000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25  $\mu$ g per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 10s.



Simple Western™ analysis of lysates from HeLa cells using  $\beta$ -Actin Rabbit mAb (AC038) at 1:200 dilution. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 0.7 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 0.7 mg/mL and 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 12-230 kDa separation module.



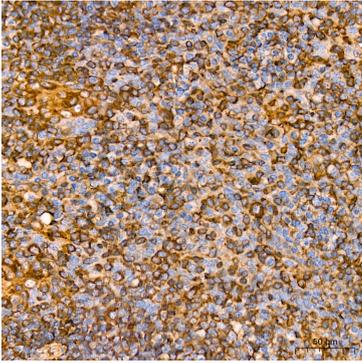
Simple Western™ analysis of lysates from NIH/3T3 cells using  $\beta$ -Actin Rabbit mAb (AC038) at 1:200 dilution. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 0.7 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 0.7 mg/mL and 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 12-230 kDa separation module.



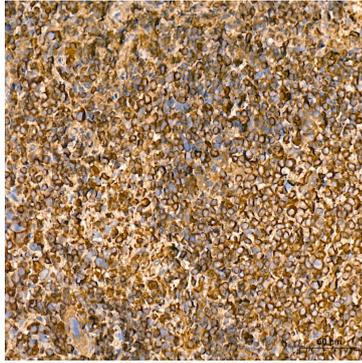
Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using  $\beta$ -Actin Rabbit mAb (AC038) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

## Validation Data

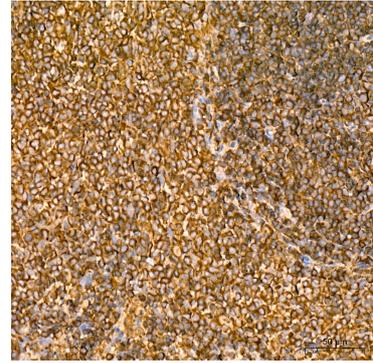
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Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using  $\beta$ -Actin Rabbit mAb (AC038) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using  $\beta$ -Actin Rabbit mAb (AC038) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen\_ tissue using  $\beta$ -Actin Rabbit mAb (AC038) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.