

## β-Actin Mouse mAb

CABC004

### Description

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This β-Actin Mouse mAb is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

### Product Information

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<b>SKU:</b>	CABC004
<b>Contents:</b>	20 μL, 100 μL Bradford Reagent: 1 vial (2ml)
<b>Category:</b>	Monoclonal Antibody
<b>Synonyms:</b>	BRWS1, PS1TP5BP1, β-Actin
<b>Clone:</b>	AMC0001
<b>Applications:</b>	<span>WB</span> <span>IHC-P</span> <span>IF/ICC</span> <span>ELISA</span>
<b>Conjugation:</b>	Unconjugated
<b>Reactivity:</b>	Human, Mouse, Rat

### Antibody Data

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<b>Gene ID:</b>	60
<b>Uniprot:</b>	AB_2737399
<b>Host Species:</b>	Mouse
<b>Purification:</b>	Affinity purification
<b>Observed MW:</b>	42kDa
<b>Calculated MW:</b>	42kDa

## Preparation & Storage

**Storage:** Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

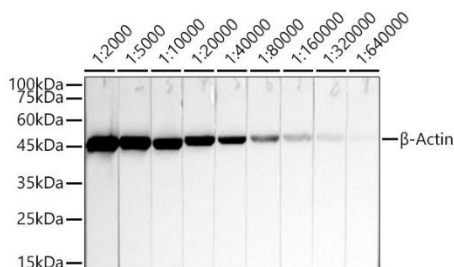
Store Bradford Reagent at Room Temperature for 1 Year.

**Positive Sample:** 293T, HeLa, A-549, NIH3T3, Mouse brain, Rat testis, C6

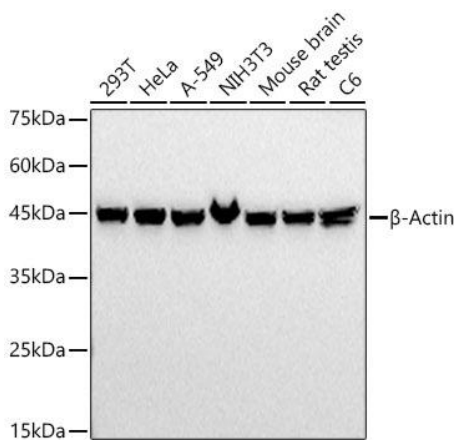
<b>Recommended Dilutions:</b>	<b>WB</b>	1:10000-1:100000
	<b>IHC-P</b>	1:1000 - 1:10000
	<b>IF/ICC</b>	1:50 - 1:200
	<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

**Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol

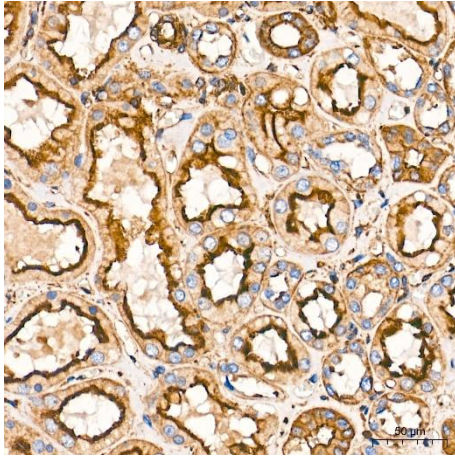
## Validation Data



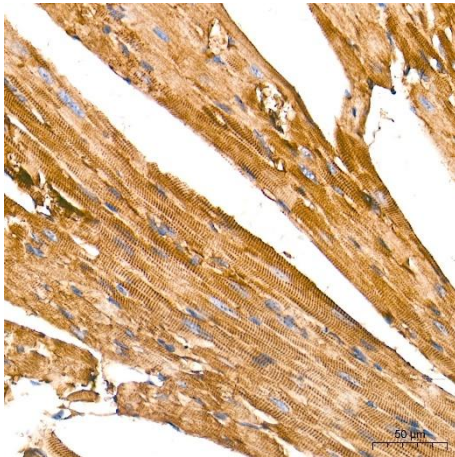
Western blot analysis of lysates from HeLa cells, using β-Actin Mouse mAb (CABC004) at 1:2000- 1:640000 dilution. Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (CABS003) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 10s.



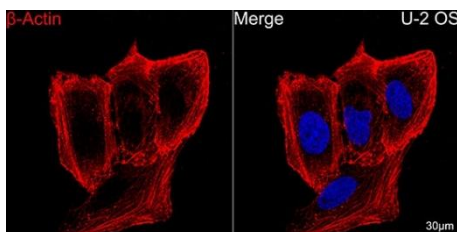
Western blot analysis of various lysates, using β-Actin Mouse mAb (CABC004) at 1:20000 dilution. Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (CABS003) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 1s.



Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using  $\beta$ -Actin Mouse mAb (CABC004) at a dilution of 1:6000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse heart tissue using  $\beta$ -Actin Mouse mAb (CABC004) at a dilution of 1:6000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Confocal imaging of U-2 OS cells using  $\beta$ -Actin Mouse mAb (CABC004, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (CABS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.