ACTB Monoclonal Antibody

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<th>Catalog No.</th>
<th>AC004</th>
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<td>Applications</td>
<td>WB, IHC, IF</td>
<td>Observed MW</td>
<td>42kDa</td>
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<tr>
<td>Cross-reactivity</td>
<td>Human, Mouse, Rat</td>
<td>Calculated MW</td>
<td>41kDa</td>
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Immunogen Information

- **Immunogen**: Fusion protein of human β-actin
- **Gene ID**: 60
- **Swiss prot**: P60709
- **Synonyms**: ACTB; BRWS1; PS1TP5BP1; beta actin

Product information

- **Source**: Mouse
- **Isotype**: IgG
- **Purification method**: Affinity purification
- **Storage**: Store at -20°C. Avoid freeze / thaw cycles.
  Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
- **Antibody Dilute Procedure**: Put 5ul AC004 into 45 ul buffer(with 50% glycerol), diluted 1:10,000 for using. The diluted antibody can be stored at -20°C without aliquot.

Background

This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, and integrity. This actin is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins.

Western blot analysis of extracts of various cell lines, using β-actin antibody (AC004) at 1:80000 dilution. Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

Recommended Dilutions

- **WB**: 1:10000 - 1:100000
- **IHC**: 1:100 - 1:200
- **IF**: 1:50 - 1:200

Immunohistochemistry of paraffin-embedded rat spleen using β-actin antibody (AC004) at dilution of 1:500 (40x lens).

Immunohistochemistry of paraffin-embedded rat heart using β-actin antibody (AC004) at dilution of 1:500 (40x lens).

Western blot analysis of extracts of NIH/3T3 cells, using β-actin antibody (AC004) at 1:10000-1:2560000 dilution. Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.
Immunohistochemistry of paraffin-embedded human stomach using β-actin antibody (AC004) at dilution of 1:500 (40x lens).

Immunohistochemistry of paraffin-embedded mouse liver using β-actin antibody (AC004) at dilution of 1:500 (40x lens).

Immunohistochemistry of paraffin-embedded mouse spleen using β-actin antibody (AC004) at dilution of 1:500 (40x lens).

Immunohistochemistry of paraffin-embedded mouse heart using β-actin antibody (AC004) at dilution of 1:500 (40x lens).

Immunohistochemistry of paraffin-embedded rat liver using β-actin antibody (AC004) at dilution of 1:500 (40x lens).

Immunohistochemistry of paraffin-embedded rat testis using β-actin antibody (AC004) at dilution of 1:500 (40x lens).

Immunofluorescence analysis of C6 cells using ACTB Monoclonal Antibody (AC004) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Immunofluorescence analysis of HeLa cells using ACTB Monoclonal Antibody (AC004) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Immunofluorescence analysis of L929 cells using ACTB Monoclonal Antibody (AC004) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.