

Monoclonal anti-human ACTB antibody (clone AT4G6)

Mouse IgG_{2a}, κ

Cat. No. IBATGA0457

Immunogen: Recombinant human ACTB (1-375aa) purified from *E. coli*.

NCBI Accession No.: NP_001092

Isotype: Mouse IgG_{2a} heavy chain and κ light chain

Clone: Anti-human ACTB mAb, clone AT4G6, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ACTB protein.

Description: Beta-actin (human gene and protein symbol ACTB/ACTB) is one of six different actin isoforms which have been identified in humans. This is one of the two nonmuscle cytoskeletal actins. Actins are highly conserved proteins that are involved in cell motility, structure and integrity. Alpha actins are a major constituent of the contractile apparatus.

Concentration: 1mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Application: ELISA, WB, ICC/IF

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246 Fax.: (763) 780-2988

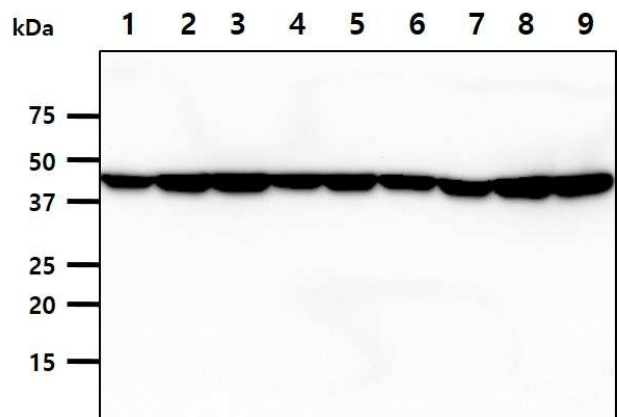
Email: info@ibl-america.com Web: www.ibl-america.com

Product information

Western blot analysis

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACTB antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

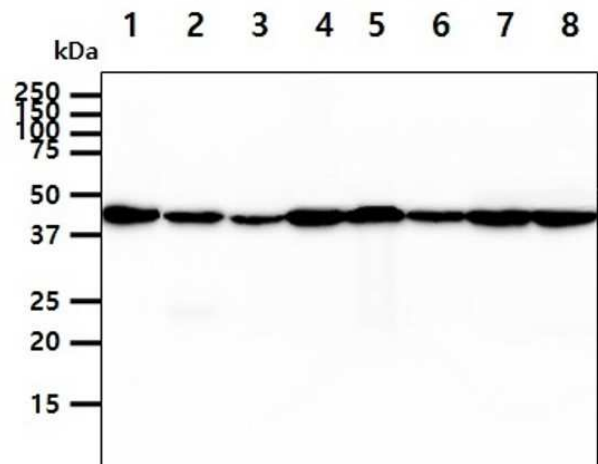
- Lane 1.: 293T cell lysate
- Lane 2.: HeLa cell lysate
- Lane 3.: Jurkat cell lysate
- Lane 4.: PC3 cell lysate
- Lane 5.: A431 cell lysate
- Lane 6.: HepG2 cell lysate
- Lane 7.: MCF7 cell lysate
- Lane 8.: U87-MG cell lysate
- Lane 9.: NIH-3T3 cell lysate



Western blot analysis

The mouse tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACTB antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Lane 1.: Brain tissue lysate
- Lane 2.: Kidney tissue lysate
- Lane 3.: Liver tissue lysate
- Lane 4.: Lung tissue lysate
- Lane 5.: Spleen tissue lysate
- Lane 6.: Testis tissue lysate
- Lane 7.: Bone marrow tissue lysate
- Lane 8.: Stomach tissue lysate



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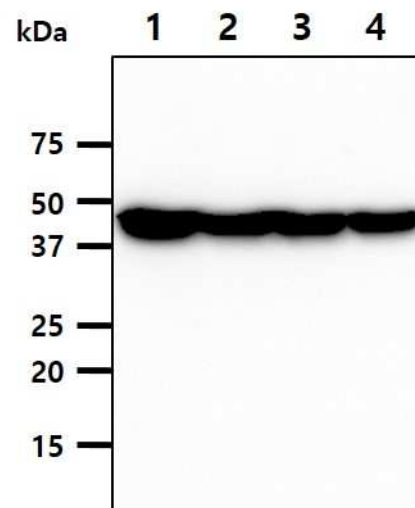
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Western blot analysis

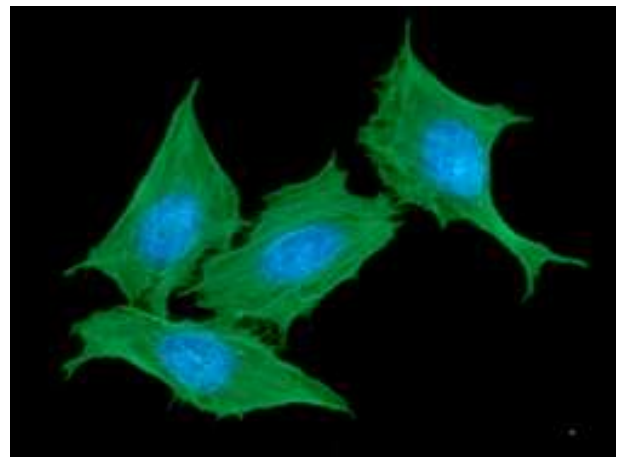
The HeLa cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ACTB antibody. Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: mouse monoclonal ACTB antibody 1:1000
 Lane 2.: mouse monoclonal ACTB antibody 1:3000
 Lane 3.: mouse monoclonal ACTB antibody 1:5000
 Lane 4.: mouse monoclonal ACTB antibody 1:10000



ICC/IF analysis

ICC/IF analysis of ACTB in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ACTB antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green)



General references: Gunning PW., *et al.* (2015) *Journal of Cell Science*. **128(11)**: 2009–2019.
 Hanukoglu I., *et al.* (1983) *Journal of Molecular Biology*. **163(4)**: 673–8.

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