Product information

Monoclonal anti-human YWHAG antibody (clone AT4B9)

Mouse IgG_1, κ

Cat. No. IBATGA0312

Immunogen: Recombinant human 14-3-3 gamma (1-247aa) purified from *E. coli*

NCBI Accession No.: NP_036611

Isotype: Mouse IgG_1 heavy chain and κ light chain

Clone: Anti-human 14-3-3 gamma mAb, clone AT4B9, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human 14-3-3 gamma protein.

Description: The 14-3-3 family of proteins plays a key regulatory role in signal transduction, checkpoint control, apoptotic and nutrient-sensing pathways. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms, β, γ, ε, σ, ζ, τ and η that have been identified in mammals. The 14-3-3 gamma, a subtype of the 14-3-3 family of proteins, was thought to be brain and neuron-specific. It has been shown to interact with RAF1 and protein kinase C, proteins involved in various signal transduction pathways.

Concentration: 1 mg/ml

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

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. 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.

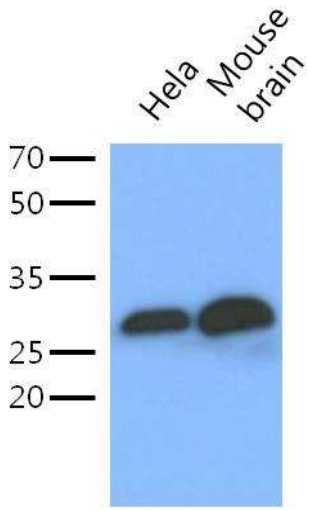
Application: ELISA, WB, ICC/IF

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

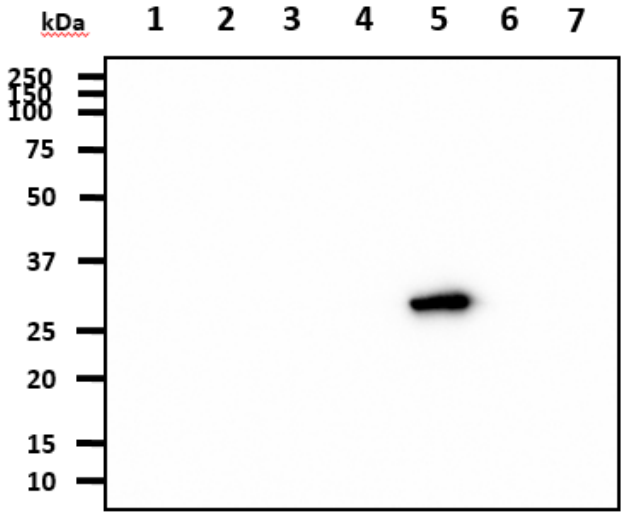
Western blot analysis

The lysates of Hela (40ug) and Mouse brain (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human 14-3-3 gamma antibody (1:1000) Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Western blot analysis

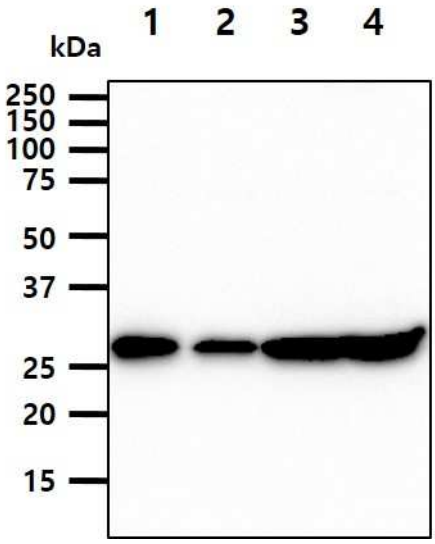
The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PDVF membrane and probed with anti-human 14-3-3 gamma antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Lane 1.: Recombinant Human YWHAZ
Lane 2.: Recombinant Human YWHAB
Lane 3.: Recombinant Human YWHAE
Lane 4.: Recombinant Human YWHAH
Lane 5.: Recombinant Human YWHAG
Lane 6.: Recombinant Human SFN
Lane 7.: Recombinant Human YWHAQ

Western blot analysis

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PDVF membrane and probed with anti-human 14-3-3 gamma 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.: A431 cell lysate
Lane 3.: K562 cell lysate
Lane 4.: NIH3T3 cell lysate

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

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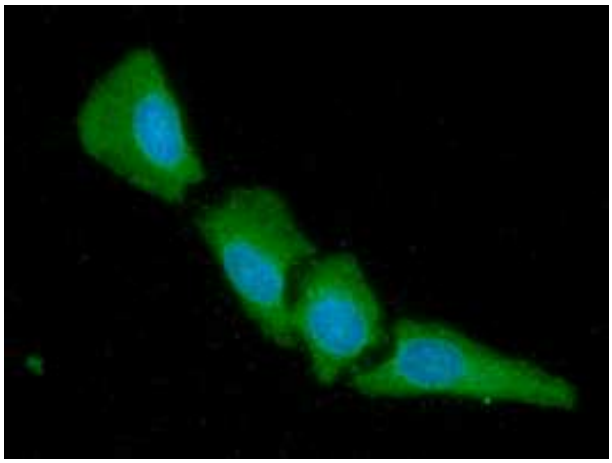
ICC/IF analysis

ICC/IF analysis of 14-3-3 gamma in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human 14-3-3 gamma antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



General references: Takagaki Y. and Manley J.L. (1992) *J Biol Chem.* **267:** 23471-23474.
Takagaki Y. and Manley J.L. (2000) *Mol Cell Biol.* **20:** 1515-1525.
Kleiman F.E. and Manley J.L. (1999) *Science.* **285:** 1576-1579.

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