Product information

Monoclonal anti-human 14-3-3 tau antibody (clone AT1A1)

Mouse IgG_1, κ

Cat. No. IBATGA0132

Immunogen: Recombinant human 14-3-3 tau (1-245aa) purified from *E. coli*

NCBI Accession No.: NP_006817

Isotype: Mouse IgG_1 heavy chain and κ light chain

Clone: Anti-human 14-3-3 tau mAb, clone AT1A1, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human 14-3-3 tau 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 tau, a subtype of the 14-3-3 family of proteins, was found in T Cells, brain and testes. This 14-3-3 tau is upregulated in patients with amyotrophic lateral sclerosis.

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, ICC/IF and Flow cytometry 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, Flow cytometry

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
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Phone: (888) 523-1246 Fax.: (763) 780-2988
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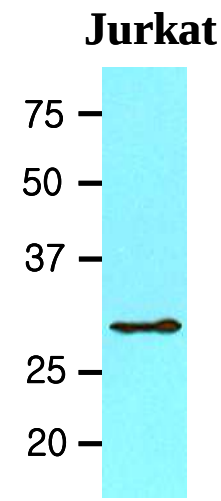
Product information

Western blot analysis

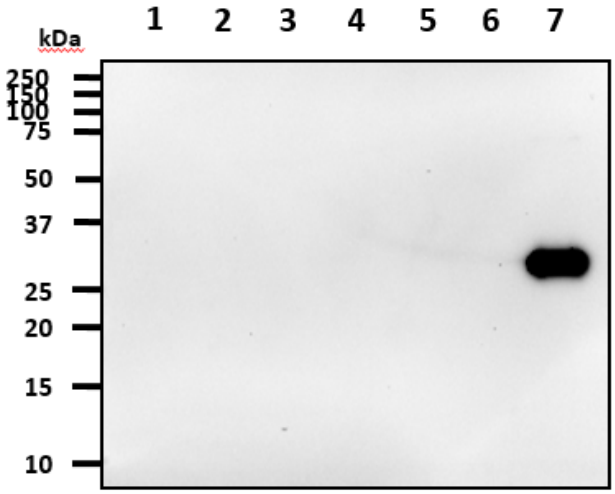
Cell lysates of Jurkat (20ug) was resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human 14-3-3 tau antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Western blot analysis

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

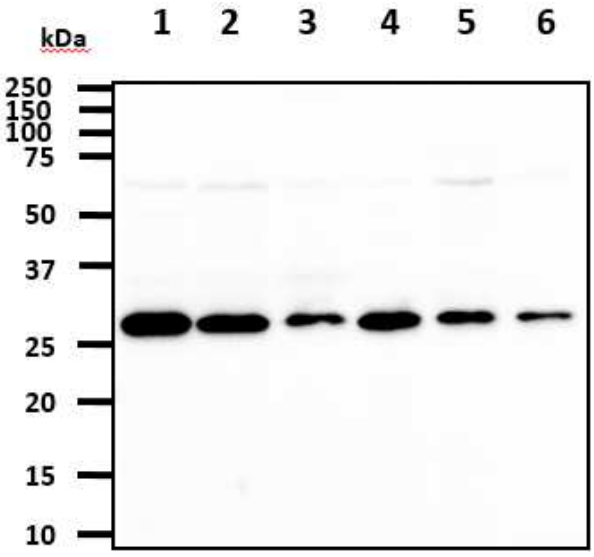
Lane 1. : Recombinant Human YWHAZ
Lane 2. : Recombinant Human YWHAB
Lane 3. : Recombinant Human YWHAE
Lane 4. : Recombinant Human YWHAH
Lane 5. : Recombinant Human YWHAG
Lane 6. : Recombinant Human SFN
Lane 7. : Recombinant Human YWHAQ



Western blot analysis

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

Lane 1. : MDA-MB-21 cell lysate
Lane 2. : HeLa cell lysate
Lane 3. : A431 cell lysate
Lane 4. : NIH3T3 cell lysate
Lane 5. : 293T cell lysate
Lane 6. : HepG2 cell lysate



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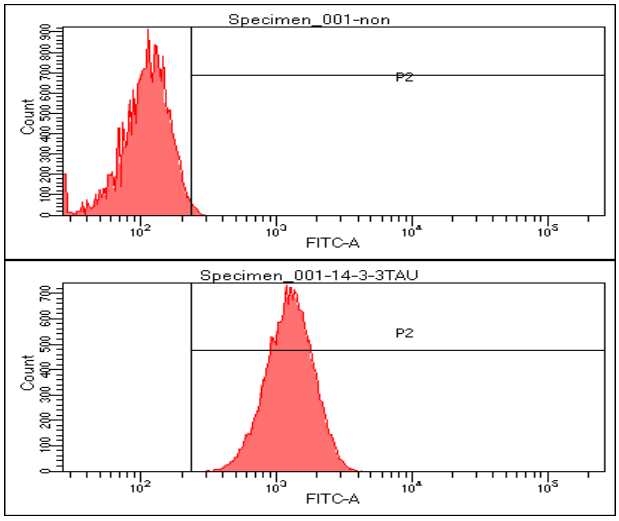
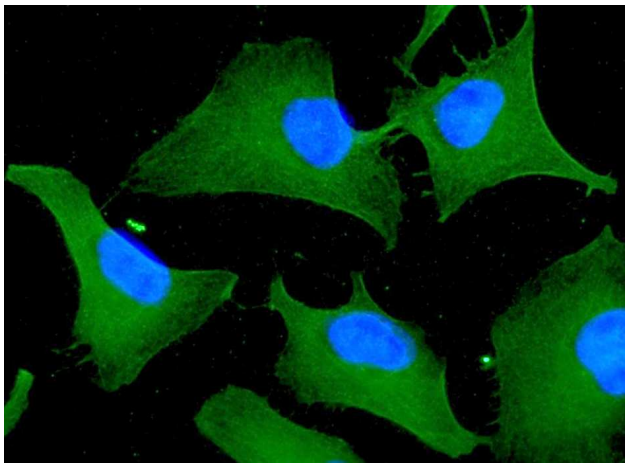
Flow cytometry

Flow cytometry analysis of 14-3-3 tau in A549 cell line, staining at 2-5ug for 1x10^{6}cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.



ICC/IF analysis

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



General references: Liu YC., *et al.* (1996) *J Biol Chem.* **271:** 14591-14595.
Xiao B., *et al.* (1995) *Nature.* **376:** 188-191.

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