

Human 14-3-3 gamma antibody

Catalog Number: ATGA0312

PRODUCT INFORMATION

Catalog number

ATGA0312

Clone No.

AT4B9

Product type

Monoclonal Antibody

UnitProt No.

P61981

NCBI Accession No.

NP_036611

Alternative Names

YWHAG, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma, Protein kinase C inhibitor protein 1, KCIP-1, 14-3-3 protein gamma N-terminally processed, protein phosphatase 1, regulatory subunit 170, PPP1R170, 14-3-3γ

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

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

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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, Beta, Gamma, Epsilon, Delta, Zeta, Tau and Eta 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.

General References

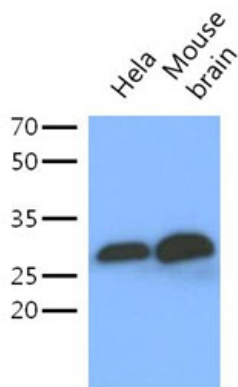
Takagaki Y. and Manley J.L. (1992) J Biol Chem 267: 23471-23474

Takagaki Y. and Manley J.L. (2000) Mol Cell Biol 20: 1515-1525

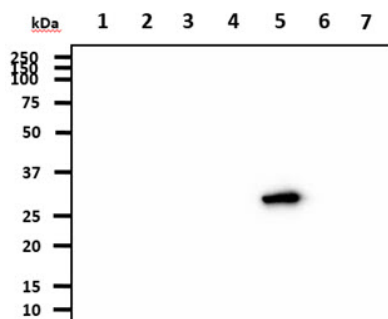
Kleiman F.E. and Manley J.L. (1999) Science 285: 1576-1579

DATA

Western blot analysis (WB)



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.

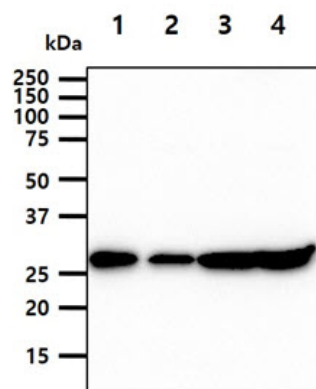


The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PDVF membrane and probed with anti-human 14-3-3 gamma antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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

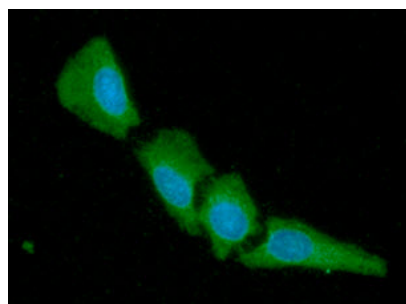
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The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PDVF membrane and probed with anti-human 14-3-3 gamma antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
 Lane 1.: 293T cell lysate
 Lane 2.: A431 cell lysate
 Lane 3.: K562 cell lysate
 Lane 4.: NIH3T3 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



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).