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Human 14-3-3 epsilon antibody

Catalog Number: ATGA0124

PRODUCT INFORMATION

Catalog number
ATGA0124

Clone No.
AT4F8

Product type
Monoclonal Antibody

UnitProt No.
P62258

NCBI Accession No.
NP_006752

Alternative Names
YWHAE, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon, 14-3-3E, HEL2, KCIP-1, MDCR, MDS

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 human14-3-3 epsilon (1-255aa) purified from E. coli

Isotype
IgG2b kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB, ICC/IF

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

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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

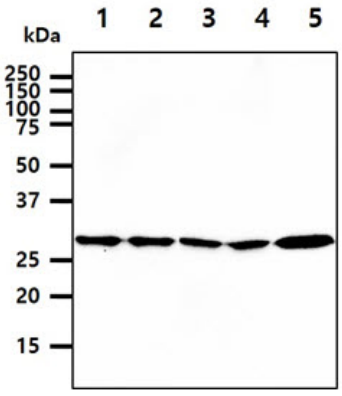
The 14-3-3 family of proteins plays a key regulatory role in signal transduction, checkpoint control, apoptotic and nutrient-sensing pathways. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms, beta, gamma, epsilon, sigma, zeta, tau and eta that have been identified in mammals. The 14-3-3 epsilon, 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 CDC25 phosphatases, RAF1 and IRS1 proteins, suggesting its role in diverse biochemical activities related to signal transduction, such as cell division and regulation of insulin sensitivity. It has also been implicated in the pathogenesis of small cell lung cancer.

General References

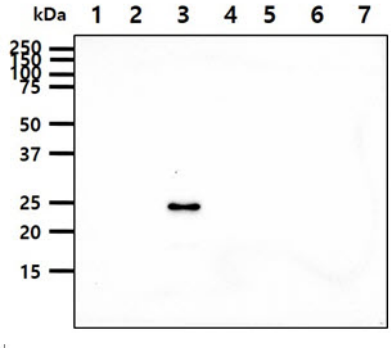
Oriente F., et al. (2005) J Biol Chem. 280(49): 40642-9.
Conklin D., et al. (1995) PNAS. 92(17): 7892-6.

DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human 14-3-3 epsilon antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: HeLa cell lysate
Lane 2.: Jurkat cell lysate
Lane 3.: 293T cell lysate
Lane 4.: A549 cell lysate
Lane 5.: Mouse Brain Tissue lysate



The Recombinant Protein (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human 14-3-3 epsilon antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: 14-3-3 Zeta Recombinant Protein
Lane 2.: 14-3-3 Beta Recombinant Protein
Lane 3.: 14-3-3 Epsilon Recombinant Protein
Lane 4.: 14-3-3 Eta Recombinant Protein
Lane 5.: 14-3-3 Gamma Recombinant Protein
Lane 6.: 14-3-3 Sigma Recombinant Protein
Lane 7.: 14-3-3 Tau Recombinant Protein

Immunocytochemistry/Immunofluorescence (ICC/IF)

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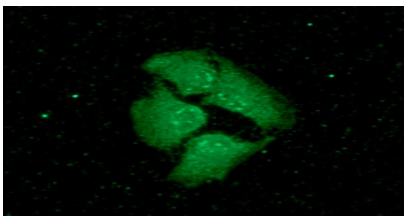
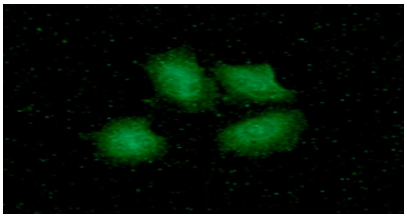


ICC/IF analysis of 14-3-3 epsilon in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human 14-3-3 epsilon antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



ICC/IF analysis of 14-3-3 epsilon in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human 14-3-3 epsilon antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).