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Monoclonal Antibody to 14-3-3 protein epsilon - Purified

Alternate names: 14-3-3E, YWHAE

Catalog No.: AM09042PU-S

Quantity: 50 µl

Concentration: 1.0 mg/ml

Background: 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 n 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.

Uniprot ID: P62258

NCBI: NP_006752.1

GeneID: 7531

Host / Isotype: Mouse / IgG2a

Recommended Isotype Controls: AM03096PU-N

Clone: 5A5

Immunogen: Recombinant Human 14-3-3 epsilon (1-255 aa) purified from *E. coli*.

Format:
State: Liquid purified Ig fraction
Purification: Protein-G affinity chromatography
Buffer System: PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol

Applications:
ELISA.
Western blot: 1/1,000-1/2,000.
Immunohistochemistry on Paraffin Sections: 5 µg/ml.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
The antibody recognizes Human and Mouse 14-3-3 epsilon.
Other species not tested.
Species: Human
Other species not tested.

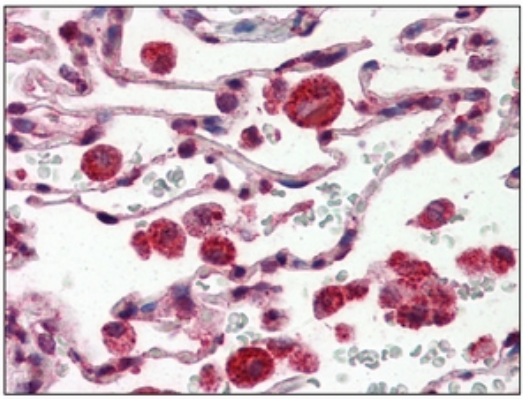
Storage:
Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

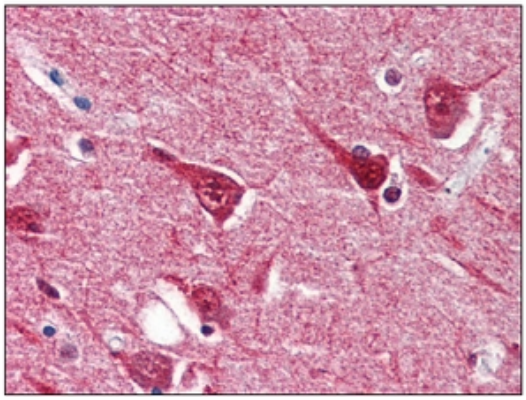
1. Kino T, Pavlakis GN. (2004) DNA Cell Biol. 23(4):193-205.
2. Jin DY, et al., (1996) Nature. 382(6589):308

Pictures:

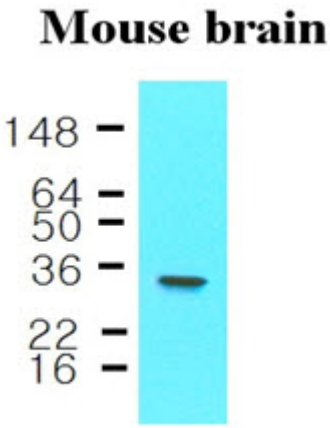
Immunohistochemistry: AM09042PU-N YWHAE antibody staining of Formalin-Fixed, Paraffin-Embedded Human Lung at 5 µg/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Immunohistochemistry: AM09042PU-N YWHAE antibody staining of Formalin-Fixed, Paraffin-Embedded Human Brain, Cortex at 5 µg/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



The extracts of mouse brain (50ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human 14-3-3 epsilon (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Western blot analysis: The extracts of mouse brain (50 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human 14-3-3 epsilon (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.