

## Monoclonal anti-human 14-3-3 epsilon antibody (clone 5A5)

**Mouse IgG<sub>2a</sub>, κ**

**Cat. No. AYW0817**

**Cat. No. AYW0857**

**Size : 100 μl**

**Size : 50 μl**

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

**Isotype:** Mouse IgG<sub>2a</sub> heavy chain and κ light chain

**Clone:** Anti-human 14-3-3 epsilon mAb, clone 5A5, is derived from hybridization of mouse FO myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human 14-3-3 epsilon 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 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.

**Concentration:** 1 mg/ml

**Form:** Liquid in Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide

**Preparation and Storage:** The antibody was purified from mouse ascitic fluids by protein-G affinity chromatography. Can be stored at 4°C for up to one month, but store at -20°C for long term storage. Avoid repeated freezing and thawing cycles.

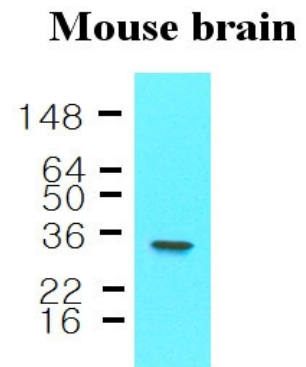
**Usage:** The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1000 ~ 1:3,000. Recommended starting dilution is 1:1000.

**Application:** ELISA, WB

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**Western blot analysis**

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.



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

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