

Product datasheet for **AM09043PU-N**

14-3-3 beta (YWHAB) Mouse Monoclonal Antibody [Clone ID: J2E9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	J2E9
Applications:	IHC, WB
Recommended Dilution:	ELISA, WB
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant human 14-3-3 beta (1-246 aa) purified from E. coli
Specificity:	The antibody recognizes human 14-3-3 beta. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
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.
Predicted Protein Size:	27.9 kDa
Gene Name:	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta
Database Link:	NP_647539 Entrez Gene 7529 Human P31946



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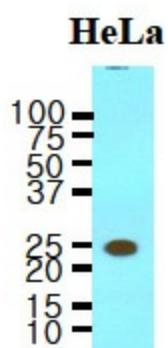
Background: The 14-3-3 family plays a key regulatory role in signal transduction, checkpoint control, apoptotic and nutrient-sensing pathways. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms, β , γ , δ , ϵ , ζ , η and θ that have been identified in mammals. The 14-3-3 beta, a subtype of the 14-3-3 proteins, was found in B Cells, brain and liver etc. This 14-3-3 beta has been shown to interact with RAF1 and CDC25 phosphatases, suggesting that it may play a role in linking mitogenic signaling and the cell cycle machinery.

Synonyms: GW128; HS1; KCIP-1

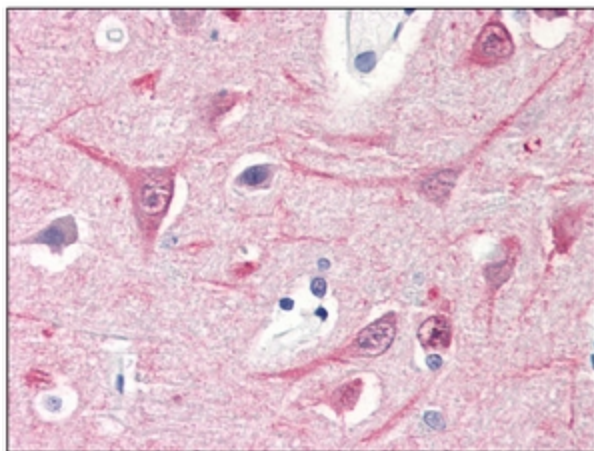
Protein Families: Druggable Genome

Protein Pathways: Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis

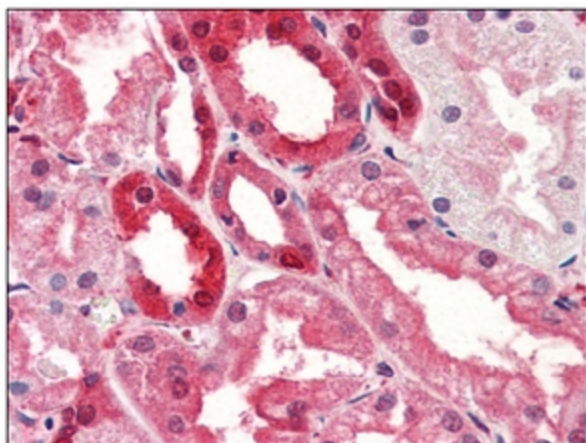
Product images:



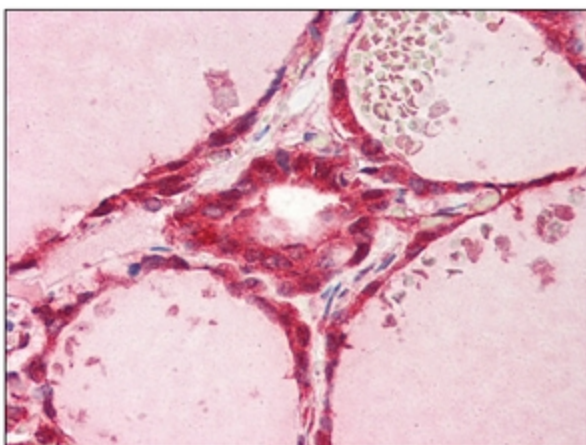
Western blot analysis: Cell lysates of HeLa (30 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-Human 14-3-3 beta antibody (1/1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunohistochemistry: 14-3-3 beta antibody staining of Formalin-Fixed, Paraffin-Embedded Human Brain, Cortex at 5 ug/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Immunohistochemistry: 14-3-3 beta antibody staining of Formalin-Fixed, Paraffin-Embedded Human Kidney at 5 ug/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Immunohistochemistry: 14-3-3 beta antibody staining of Formalin-Fixed, Paraffin-Embedded Human Thyroid at 5 ug/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.