

Product datasheet for **TA332392**

14-3-3 beta (YWHAB) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, IP, WB
Recommended Dilution:	WB 1:500 - 1:2000;IF 1:50- 1:200
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human YWHAB
Formulation:	Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	246
Gene Name:	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta
Database Link:	NP_647539 Entrez Gene 54401 Mouse Entrez Gene 7529 Human P31946



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Background:

3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms, $\hat{1}^2$, $\hat{1}^3$, $\hat{1}^\mu$, $\hat{1}^\eta$, $\hat{1}^\zeta$, $\hat{1}^\theta$, and $\hat{1}^\iota$ that have been identified in mammals. The initially described $\hat{1}^\pm$ and $\hat{1}^\prime$ isoforms are confirmed to be phosphorylated forms of $\hat{1}^2$ and $\hat{1}^\eta$, respectively (3). Through their amino-terminal $\hat{1}^\pm$ helical region, 14-3-3 proteins form homo- or heterodimers that interact with a wide variety of proteins: transcription factors, metabolic enzymes, cytoskeletal proteins, kinases, phosphatases, and other signaling molecules (3,4). The interaction of 14-3-3 proteins with their targets is primarily through a phospho-Ser/Thr motif. However, binding to divergent phospho-Ser/Thr motifs, as well as phosphorylation-independent interactions, has been observed (4). 14-3-3 binding masks specific sequences of the target protein and therefore modulates target protein localization, phosphorylation state, stability, and molecular interactions (1-4). 14-3-3 proteins may also induce target protein conformational changes that modify target protein function (4,5). Distinct temporal and spatial expression patterns of 14-3-3 isoforms have been observed in development and in acute response to extracellular signals and drugs, suggesting that 14-3-3 isoforms may perform different functions despite their sequence similarities (4). Several studies suggest that 14-3-3 isoforms are differentially regulated in cancer and neurological syndromes (2,3).

Synonyms:

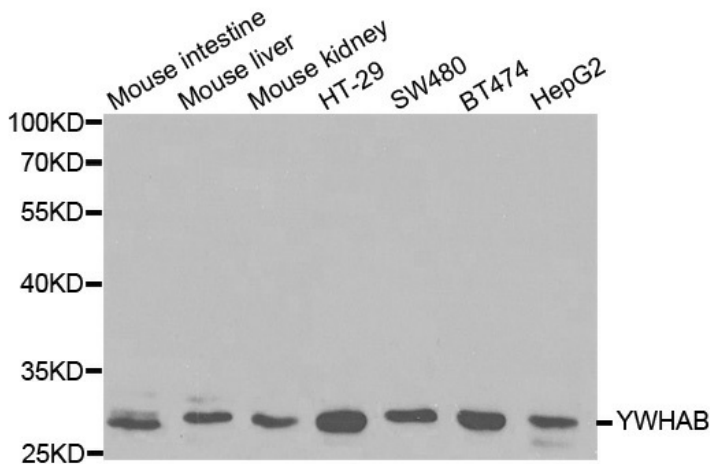
GW128; HEL-S-1; HS1; KCIP-1; YWHAA

Protein Families:

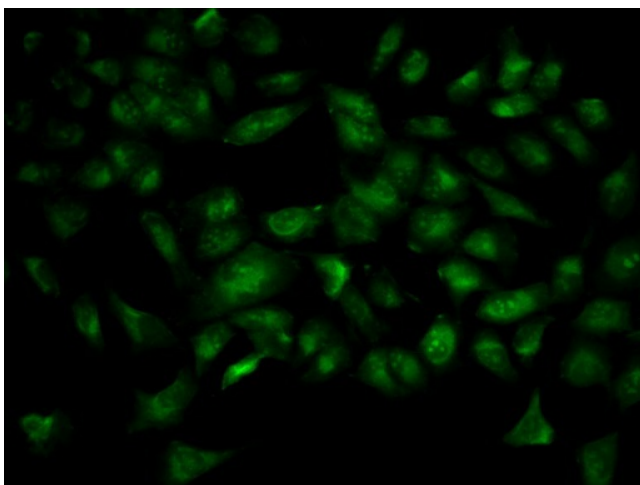
Druggable Genome

Protein Pathways:

Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis

Product images:

Western blot analysis of extracts of various cell lines, using YWHAB antibody.



Immunofluorescence analysis of HeLa cell using YWHAB antibody.