

**YWHAZ Antibody (S58)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AE1001a**

**Specification**

---

**YWHAZ Antibody (S58) - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">P63104</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>1mg/ml</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>27745</b>

**YWHAZ Antibody (S58) - Additional Information**

**Gene ID** 7534

**Other Names**

14-3-3 protein zeta/delta, Protein kinase C inhibitor protein 1, KCIP-1, YWHAZ

**Dilution**

WB~~1:500~1:1000

IHC~~1:50~1:100

**Format**

affinity Purified IgG, in PBS, 0.02% sodium azide and 50% glycerol.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

YWHAZ Antibody (S58) is for research use only and not for use in diagnostic or therapeutic procedures.

**YWHAZ Antibody (S58) - Protein Information**

**Name** YWHAZ

**Function**

Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways (PubMed:<a href="http://www.uniprot.org/citations/14578935" target="\_blank">14578935</a>, PubMed:<a href="http://www.uniprot.org/citations/15071501" target="\_blank">15071501</a>, PubMed:<a href="http://www.uniprot.org/citations/15644438" target="\_blank">15644438</a>, PubMed:<a href="http://www.uniprot.org/citations/16376338" target="\_blank">16376338</a>)

target="\_blank">16376338</a>, PubMed:<a href="http://www.uniprot.org/citations/16959763" target="\_blank">16959763</a>, PubMed:<a href="http://www.uniprot.org/citations/31024343" target="\_blank">31024343</a>, PubMed:<a href="http://www.uniprot.org/citations/9360956" target="\_blank">9360956</a>). Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif (PubMed:<a href="http://www.uniprot.org/citations/35662396" target="\_blank">35662396</a>). Binding generally results in the modulation of the activity of the binding partner (PubMed:<a href="http://www.uniprot.org/citations/35662396" target="\_blank">35662396</a>). Promotes cytosolic retention and inactivation of TFEB transcription factor by binding to phosphorylated TFEB (PubMed:<a href="http://www.uniprot.org/citations/35662396" target="\_blank">35662396</a>). Induces ARHGEF7 activity on RAC1 as well as lamellipodia and membrane ruffle formation (PubMed:<a href="http://www.uniprot.org/citations/16959763" target="\_blank">16959763</a>). In neurons, regulates spine maturation through the modulation of ARHGEF7 activity (By similarity).

### Cellular Location

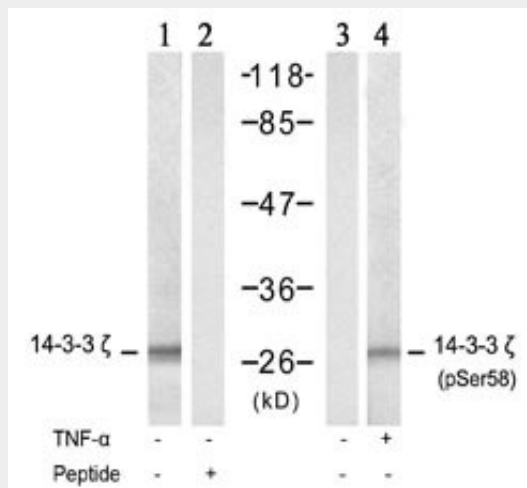
Cytoplasm. Melanosome. Note=Located to stage I to stage IV melanosomes.

### YWHAZ Antibody (S58) - Protocols

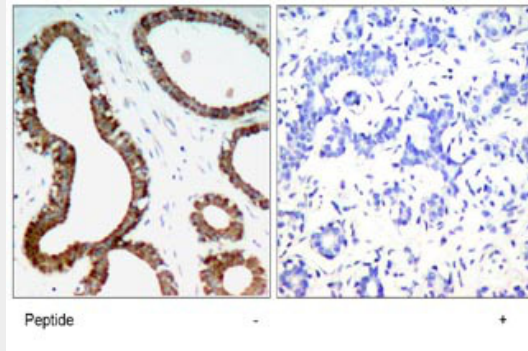
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### YWHAZ Antibody (S58) - Images



Western blot analysis of extract from NIH/3T3 cells, untreated or treated with TNF-α (20ng/ml, 5min), using 14-3-3 Zeta (Delta) Antibody (S58) (#AE1001a, lane 1 and 2) and Phospho-14-3-3 Zeta (Delta)-S58 Antibody (AE1001b, lane 3 and 4).



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using 14-3-3 Zeta (Delta) Antibody (S58 (#AE1001a)).

#### **YWHAZ Antibody (S58) - Background**

This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 99% identical to the mouse, rat and sheep orthologs. The encoded protein interacts with IRS1 protein, suggesting a role in regulating insulin sensitivity. Several transcript variants that differ in the 5' UTR but that encode the same protein have been identified for this gene.

#### **YWHAZ Antibody (S58) - References**

Proteome analysis of the thalamus and cerebrospinal fluid reveals glycolysis dysfunction and potential biomarkers candidates for schizophrenia. Martins-de-Souza D, et al. J Psychiatr Res, 2010 May 14. PMID 20471030. The expression of seven 14-3-3 isoforms in human meningioma. Liu Y, et al. Brain Res, 2010 Jun 8. PMID 20388496. The C-terminal segment of yeast BMH proteins exhibits different structure compared to other 14-3-3 protein isoforms. Veisova D, et al. Biochemistry, 2010 May 11. PMID 20384366. Sex-specific proteome differences in the anterior cingulate cortex of schizophrenia. Martins-de-Souza D, et al. J Psychiatr Res, 2010 Apr 8. PMID 20381070. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.