

**YWHAZ Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8152c****Specification**

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**YWHAZ Antibody (Center) Blocking Peptide - Product Information**

Primary Accession [P63104](#)  
Other Accession [P29312](#)

**YWHAZ Antibody (Center) Blocking Peptide - Additional Information**

**Gene ID** 7534

**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8152c](/products/AP8152c) was selected from the Center region of human YWHAZ. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**YWHAZ Antibody (Center) Blocking Peptide - Protein Information**

**Name** YWHAZ

**Function**

Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways (PubMed: [14578935](http://www.uniprot.org/citations/14578935), PubMed: [15071501](http://www.uniprot.org/citations/15071501), PubMed: [15644438](http://www.uniprot.org/citations/15644438), PubMed: [16376338](http://www.uniprot.org/citations/16376338), PubMed: [16959763](http://www.uniprot.org/citations/16959763), PubMed: [31024343](http://www.uniprot.org/citations/31024343), PubMed: [9360956](http://www.uniprot.org/citations/9360956)). Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif (PubMed: [35662396](http://www.uniprot.org/citations/35662396)). 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 (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **YWHAZ Antibody (Center) Blocking Peptide - Images**

### **YWHAZ Antibody (Center) Blocking Peptide - Background**

YWHAZ 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. Two transcript variants differing in the 5' UTR, but encoding the same protein, have been identified for the gene. Both variants encode the same protein, however, they are differentially expressed in hematopoietic cells.

### **YWHAZ Antibody (Center) Blocking Peptide - References**

Powell, D.W., et al., Mol. Cell. Biol. 23(15):5376-5387 (2003).Zhu, P., et al., Biochem. Biophys. Res. Commun. 301(4):991-999 (2003).Li, Y., et al., J. Biol. Chem. 277(47):44593-44596 (2002).Wang, H., et al., J. Clin. Endocrinol. Metab. 87(6):2629-2634 (2002).Nellist, M., et al., J. Biol. Chem. 277(42):39417-39424 (2002).