

**YWHAZ Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8152c****Specification**

---

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

Application	FC, IHC-P, WB,E
Primary Accession	<a href="#">P63104</a>
Other Accession	<a href="#">P63102</a> , <a href="#">P63101</a> , <a href="#">Q5ZKC9</a> , <a href="#">P63103</a> , <a href="#">P29361</a>
Reactivity	Human, Mouse
Predicted	Bovine, Chicken, Rat, Sheep
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	65-93

**YWHAZ Antibody (Center) - Additional Information****Gene ID** 7534**Other Names**

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

**Target/Specificity**

This YWHAZ antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 65-93 amino acids from the Central region of human YWHAZ.

**Dilution**

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

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

**YWHAZ Antibody (Center) - Protein Information****Name** YWHAZ

**Function** Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways (PubMed:[14578935](#), PubMed:[15071501](#), PubMed:[15644438](#), PubMed:[16376338](#), PubMed:[16959763](#), PubMed:[31024343](#), PubMed:[9360956](#)). Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif (PubMed:[35662396](#)). Binding generally results in the modulation of the activity of the binding partner (PubMed:[35662396](#)). Promotes cytosolic retention and inactivation of TFEB transcription factor by binding to phosphorylated TFEB (PubMed:[35662396](#)). Induces ARHGEF7 activity on RAC1 as well as lamellipodia and membrane ruffle formation (PubMed:[16959763](#)). In neurons, regulates spine maturation through the modulation of ARHGEF7 activity (By similarity).

#### Cellular Location

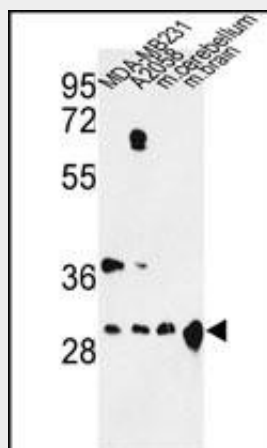
Cytoplasm. Melanosome. Note=Located to stage I to stage IV melanosomes.

#### YWHAZ Antibody (Center) - Protocols

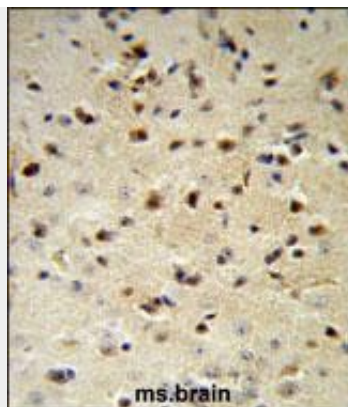
Provided below are standard protocols that you may find useful for product applications.

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

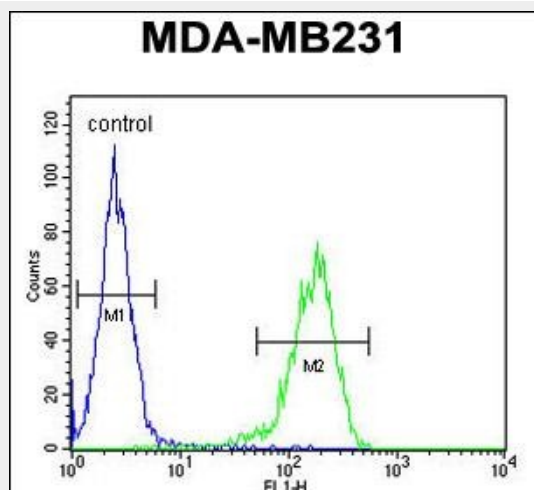
#### YWHAZ Antibody (Center) - Images



Western blot analysis of YWHAZ Antibody (Center) (Cat. #AP8152c) in MDA-MB231, A2058 cell line and mouse cerebellum, brain tissue lysates (35ug/lane). YWHAZ (arrow) was detected using the purified Pab.



YWHAZ Antibody (Center) (Cat. #AP8152c) IHC analysis in formalin fixed and paraffin embedded mouse brain followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the YWHAZ Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



YWHAZ Antibody (Center) (Cat. #AP8152c) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### YWHAZ Antibody (Center) - 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) - 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).

### YWHAZ Antibody (Center) - Citations

- [Altered expression of microRNA-451 in eutopic endometrium of baboons \(Papio anubis\) with](#)

[endometriosis.](#)