

# **YWHAZ Antibody**

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM2256a

# **Specification**

# **YWHAZ Antibody - Product Information**

Application Primary Accession Other Accession Reactivity Predicted

Host Clonality Isotype WB,E P63104

P63102, P63101, P63103, P29361

Human, Mouse, Rat Bovine, Sheep

Mouse Monoclonal IgG2b,κ

# YWHAZ Antibody - 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 a mouse immunized with a recombinant protein from human YWHAZ.

#### **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

## **Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

## 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 is for research use only and not for use in diagnostic or therapeutic procedures.

# **YWHAZ Antibody - 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**

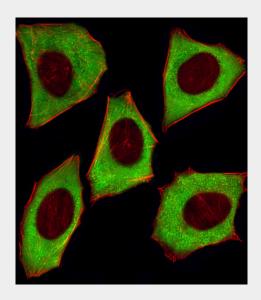
Cytoplasm. Melanosome. Note=Located to stage I to stage IV melanosomes.

# YWHAZ Antibody - Protocols

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

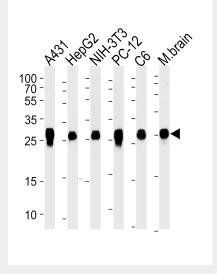
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# YWHAZ Antibody - Images



Fluorescent image of U251 cells stained with YWHAZ Antibody (Cat#AM2256a). AM2256a was diluted at 1:25 dilution. An Alexa Fluor® 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).





Western blot analysis of lysates from A431, HepG2, mouse NIH/3T3, rat PC-12 and C6 cell line, mouse brain tissue (from left to right), using YWHAZ Antibody (Cat. #AM2256a). AM2256a was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35µg per lane.

# YWHAZ Antibody - Background

Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner.

### **YWHAZ Antibody - References**

Zupan L.A., et al.J. Biol. Chem. 267:8707-8710(1992). Seluja G.A., et al.Biochim. Biophys. Acta 1395:281-287(1998). Ota T., et al.Nat. Genet. 36:40-45(2004). Mural R.J., et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases. Gevaert K., et al.Nat. Biotechnol. 21:566-569(2003).