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YWHAZ Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AW5068

Product Information

Application	WB
Primary Accession	P63104
Other Accession	P63102, P63101, P63103
Reactivity	Human, Mouse, Rat
Predicted	Bovine
Host	Mouse
Clonality	Monoclonal
Calculated MW	27745
Isotype	IgG2b,κ
Antigen Source	HUMAN

Additional Information

Gene ID	7534
Antigen Region	1-261
Other Names	14-3-3 protein zeta/delta, Protein kinase C inhibitor protein 1, KCIP-1, YWHAZ
Dilution	WB~~1:1000
Target/Specificity	This YWHAZ antibody is generated from a mouse immunized with a recombinant protein from human YWHAZ.
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.

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.

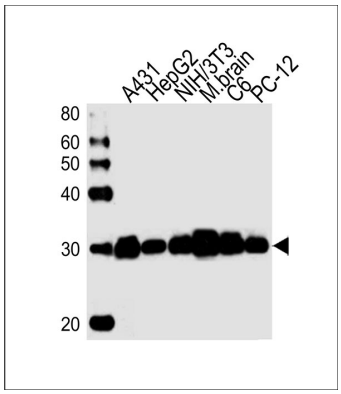
Background

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.

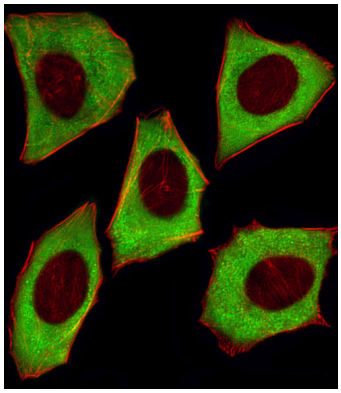
References

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).

Images



Western blot analysis of lysates from A431,HepG2,mouse NIH/3T3 cell line,mouse brain tissue,rat C6,PC-12 cell line (from left to right), using YWHAZ Antibody(Cat. #AW5068). AW5068 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.



Fluorescent image of U251 cells stained with YWHAZ Antibody (Cat#AW5068). AW5068 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).