10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Monoclonal Antibody to YWHAB

Purified Mouse Monoclonal Antibody
Catalog # AO2325a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	P31946
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Clone Names	5B5G10
Isotype	Mouse IgG2b
Calculated MW	28082
Description	This gene encodes a protein belonging to the 14-3-3 family of proteins, members of which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals. The encoded protein has been shown to interact with RAF1 and CDC25 phosphatases, suggesting that it may play a role in linking mitogenic signaling and the cell cycle machinery. Two transcript variants, which encode the same protein, have been identified for this gene.;
Immunogen	Purified recombinant fragment of human YWHAB (AA: 1-246) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide
Application Note	ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000; ICC: 1/200 - 1/1000; FCM: 1/200 - 1/400

Additional Information

Gene ID	7529
Other Names	HS1; GW128; YWHAA; KCIP-1; HEL-S-1
Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A E~~N/A
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	Mouse Monoclonal Antibody to YWHAB is for research use only and not for use in diagnostic or therapeutic procedures.

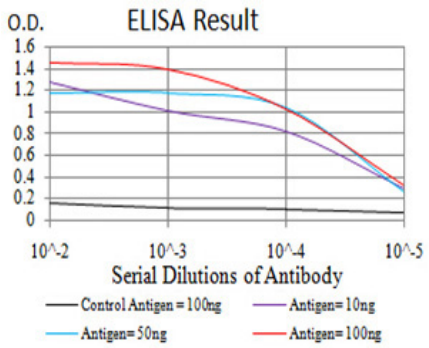
Protein Information

Name	YWHAB
Function	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. Negative regulator of osteogenesis. Blocks the nuclear translocation of the phosphorylated form (by AKT1) of SRPK2 and antagonizes its stimulatory effect on cyclin D1 expression resulting in blockage of neuronal apoptosis elicited by SRPK2. Negative regulator of signaling cascades that mediate activation of MAP kinases via AKAP13.
Cellular Location	Cytoplasm. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

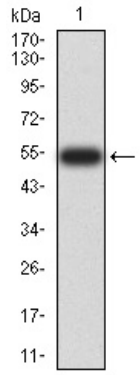
References

1.BMC Res Notes. 2014 Feb 20;7:97. ; 2.Mol Biol Rep. 2012 Dec;39(12):10647-53.;

Images

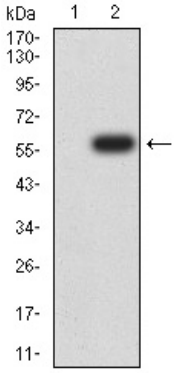


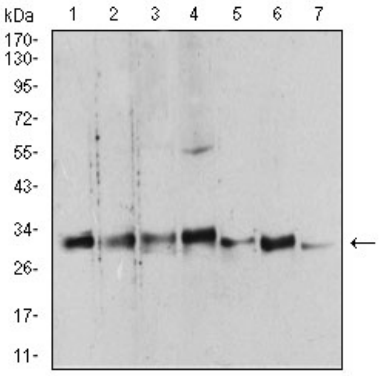
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



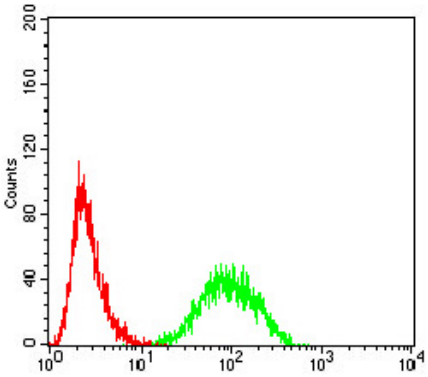
Western blot analysis using YWHAB mAb against human YWHAB (AA: 1-246) recombinant protein. (Expected MW is 54 kDa)

Western blot analysis using YWHAB mAb against HEK293 (1) and YWHAB (AA: 1-246)-hIgGFc transfected HEK293 (2) cell lysate.

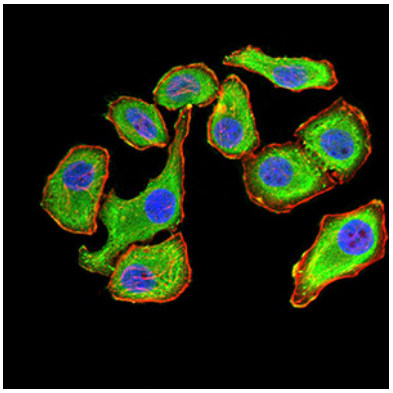




Western blot analysis using YWHAB mouse mAb against Hela (1), NIH/3T3 (2), C6 (3), A431 (4), K562 (5), PC-12 (6), and U937 (7) cell lysate.

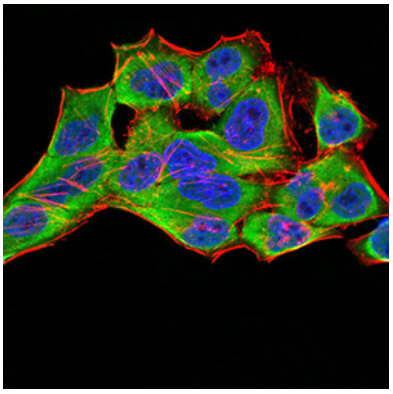


Flow cytometric analysis of Hela cells using YWHAB mouse mAb (green) and negative control (red).



Immunofluorescence analysis of GC-7901 cells using YWHAB mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher

Immunofluorescence analysis of Hela cells using YWHAB mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher



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