

Mouse anti-Human 14-3-3 beta Monoclonal Antibody | anti-YWHAB antibody

Anti-14-3-3 beta Antibody, Mouse Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255220	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, ELISA

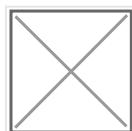
PRODUCT SYNONYMS

14-3-3 beta; Monoclonal Antibody; Anti-14-3-3 beta Antibody; Mouse Monoclonal; 14-3-3 beta/YWHAB Antibody; Mouse MAb; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein; beta; Anti-GW128 Antibody; Anti-HEL-S-1 Antibody; Anti-HS1 Antibody; Anti-KCIP-1 Antibody; Anti-YWHAA Antibody; anti-YWHAB antibody

PRODUCT SPECIFICATIONS

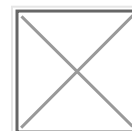
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	03
Specificity	Human 14-3-3 beta/YWHAB. No cross-reactivity in ELISA with E Coli cell lysate (BL21 cell line) Has cross-reactivity in ELISA with Cynomolgus YWHAB
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-YWHAB antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	Recombinant Human 14-3-3 beta/YWHAB protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human 14-3-3 beta/YWHAB (rh 14-3-3 beta/YWHAB). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human YWHAB expression on Molt-4 cells. The cells were treated according to manufacturer's manual (BD Pharmingen), stained with purified anti-Human YWHAB, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



IF (Immunofluorescence)

Immunofluorescence staining of Human YWHAB in MCF7 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with Mouse anti-Human YWHAB monoclonal antibody (1:60) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-mouse IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.

ADDITIONAL INFORMATION

Related Product Information for anti-YWHAB antibody	14-3-3 beta/YWHAB is a member of the 14-3-3 proteins family. 14-3-3 proteins are a group of highly conserved proteins that are involved in many vital cellular processes such as metabolism, protein trafficking, signal transduction, apoptosis and cell cycle regulation. 14-3-3 proteins are mainly localized in the synapses and neuronal cytoplasm, and seven isoforms have been identified in mammals. This family of proteins was initially identified as adaptor proteins which bind to phosphoserine-containing motifs. Binding motifs and potential functions of 14-3-3 proteins are now recognized to have a wide range of functional relevance. 14-3-3 beta/YWHAB is found in both plants and mammals, and this protein is 100% identical to the mouse ortholog. 14-3-3 beta/YWHAB interacts with CDC25 phosphatases, RAF1 and IRS1 proteins, suggesting its role in diverse biochemical activities related to signal transduction, such as cell division and regulation of insulin sensitivity. 14-3-3 beta/YWHAB has also been implicated in the pathogenesis of small cell lung cancer. 14-3-3 beta/YWHAB binding negatively regulates RSK1 activity to maintain signal specificity and that association/dissociation of the 14-3-3beta-RSK1 complex is likely to be important for mitogen-mediated RSK1 activation.
Product Categories/Family for anti-YWHAB antibody	phospho-Serine/phospho-Threonine Binding Proteins Adaptor Proteins Apoptosis Adaptor Proteins ; Death Receptor Signaling
References	Tommerup N, et al. (1996) Assignment of the human genes encoding 14, 3-3 Eta (YWHAB) to 22q12, 14-3-3 zeta (YWHAZ) to 2p25.1-p25.2, and 14-3-3 beta (YWHAB) to 20q13.1 by in situ hybridization. Genomics. 33(1): 149-50. Jin YH, et al. (2008) Sirt2 interacts with 14-3-3 beta/gamma and down-regulates the activity of p53. Biochem Biophys Res Commun. 368(3): 690-5. Sekimoto T, et al. (2004) 14-3-3 suppresses the nuclear localization of threonine 157-phosphorylated p27(Kip1). EMBO J. 23(9): 1934-42.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507949
NCBI GeneID	7529
NCBI Accession #	NP_003395.1
NCBI GenBank Nucleotide #	NM_003404.3
UniProt Accession #	P31946 ; A8K9K2 ; E1P616
Molecular Weight	28,082 Da
NCBI Official Full Name	14-3-3 protein beta/alpha
NCBI Official Synonym Full Names	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide
NCBI Official Symbol	YWHAB
NCBI Official Synonym Symbols	HS1; GW128; YWHAA; KCIP-1
NCBI Protein Information	14-3-3 protein beta/alpha; 14-3-3 alpha; protein 1054; brain protein 14-3-3, beta isoform; protein kinase C inhibitor protein 1; protein kinase C inhibitor protein-1; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, alpha polypeptid
UniProt Protein Name	14-3-3 protein beta/alpha
UniProt Gene Name	YWHAB
UniProt Synonym Gene Names	KCIP-1
UniProt Entry Name	1433B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/14-3-3-beta-antibody-clone-03-immunofluorescence-immunocytochemistry-flow-cytometry-elisa/255220>