

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

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

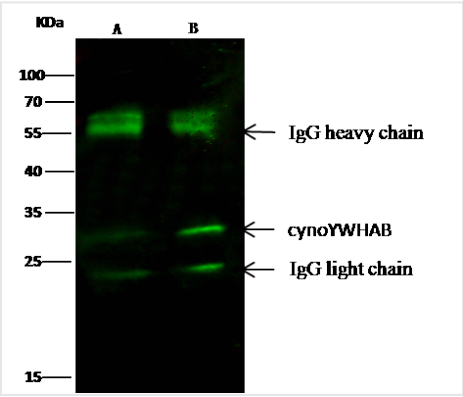
CATALOG # AAA257351	HOST Mouse	REACTIVITY Cynomolgus	APPLICATIONS Immunoprecipitation, ELISA, Western Blot
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PRODUCT SYNONYMS

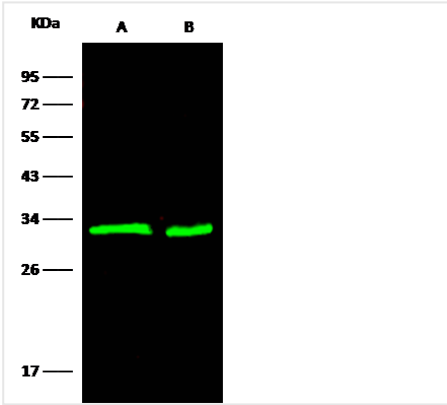
14-3-3 beta; Monoclonal Antibody; Anti-14-3-3 beta Antibody; Mouse Monoclonal; 14-3-3 beta/YWHAB Antibody; Mouse MAb; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein; beta; anti-YWHAB antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Cynomolgus
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	05
Specificity	Cynomolgus 14-3-3 beta/YWHAB. Has cross-reactivity in ELISA with Human YWHAB. No cross-reactivity in ELISA with E Coli cell lysate Has cross-reactivity in ELISA with Human YWHAB
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-YWHAB antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Cynomolgus 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 Cynomolgus 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.



IP (Immunoprecipitation)
cyno YWHAB was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate; Lane B: 0.5 mg HeLa Whole Cell Lysate; 2 uL anti-cyno YWHAB mouse monoclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-cyno YWHAB mouse monoclonal antibody, at 1:200 dilution. Secondary antibody: DyLight 800-labeled antibody to Mouse IgG (H+L), at 1:7500 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 32 kDa. Observed band size: 32 kDa.



WB (Western Blot)
Anti-YWHAB mouse monoclonal antibody at 1:500 dilution. Lane A: HeLa Whole Cell Lysate; Lane B: HepG2 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Mouse IgG H&L (DyLight 800) at 1/15000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 28 kDa. Observed band size: 32 kDa.

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 (YWHAH) 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 #	544465942
NCBI GeneID	101926442
NCBI Accession #	XP_005569168.1
NCBI GenBank Nucleotide #	XM_005569111.2
UniProt Accession #	Q4R572
Molecular Weight	27,850 Da
NCBI Official Full Name	14-3-3 protein beta/alpha
NCBI Official Symbol	YWHAB

NCBI Official Synonym Symbols	GW128
NCBI Protein Information	14-3-3 protein beta/alpha
UniProt Protein Name	14-3-3 protein beta/alpha
UniProt Gene Name	YWHAB

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-05-immunoprecipitation-western-blot-elisa/257351>