

Rabbit 14-3-3 beta/zeta Polyclonal Antibody | anti-YWHAZ antibody

14-3-3 beta/zeta Antibody

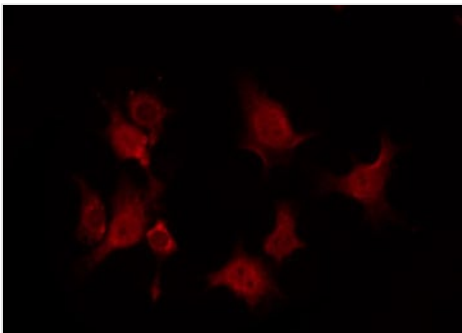
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320758	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

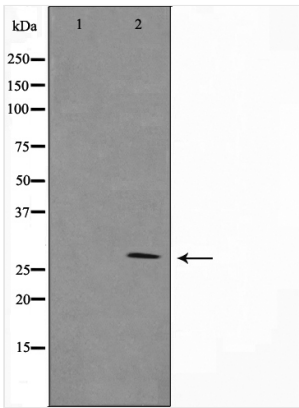
14-3-3 beta/zeta; Polyclonal Antibody; 14-3-3 beta/zeta Antibody; 14 3 3 delta; 14 3 3 protein zeta/delta; 14 3 3 protein/cytosolic phospholipase A2; 14 3 3 zeta; 14-3-3 protein zeta/delta; 1433Z_HUMAN; Epididymis luminal protein 4; Epididymis secretory protein Li 3; HEL S 3; HEL4; KCIP-1; KCIP1; MGC111427; MGC126532; MGC138156; Phospholipase A2; Protein kinase C inhibitor protein 1; Tyrosine 3 monooxygenase/tryptophan 5 monooxygenase activation protein; delta polypeptide; zeta; zeta polypeptide; Tyrosine 3/tryptophan 5 monooxygenase activation protein; YWHAD; YWHAZ; 14 3 3 alpha; 14 3 3 protein beta/alpha; 14-3-3 protein beta/alpha; 1433B_HUMAN; Brain protein 14 3 3 beta isoform; GW128; HS 1; N-terminally processed; Protein 1054; YWHAA; YWHAB; anti-YWHAZ antibody

PRODUCT SPECIFICATIONS

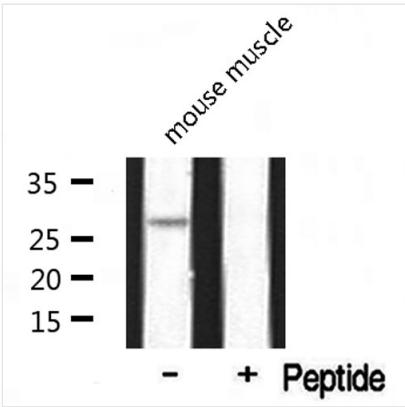
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	14-3-3 beta/zeta antibody detects endogenous levels of total 14-3-3 beta/zeta
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	245
Applicable Applications for anti-YWHAZ antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human 14-3-3 beta/zeta
Subcellular Location	Cytoplasm. Melanosome. Located to stage I to stage IV melanosomes.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (89%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)
AAA320758 staining RAW264.7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis on RAW264.7 cell lysate using 14-3-3 beta/zeta Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis on mouse brain lysate using 14-3-3 beta/zeta Antibody. The lane on the right is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-YWHAZ antibody	Description: 14-3-3 zeta a protein of the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. A multifunctional regulator of the cell signaling processes. Phosphorylation apparently disrupts homodimerization. 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. Subunit Structure: Interacts with CDK16 and BSPRY (By similarity). Interacts with WEE1 (C-terminal). Interacts with SAMSN1 (By similarity). Interacts with MLF1 (phosphorylated form); the interaction retains it in the cytoplasm (By similarity). Interacts with Thr-phosphorylated ITGB2 (By similarity). Interacts with BCL2L11 (By similarity). Homodimer. Heterodimerizes with YWHAE. Homo-and hetero-dimerization is inhibited by phosphorylation on Ser-58. Interacts with FOXO4, NOXA1, SSH1 and ARHGEF2. Interacts with Pseudomonas aeruginosa exoS (unphosphorylated form). Interacts with BAX; the interaction occurs in the cytoplasm. Under stress conditions, MAPK8-mediated phosphorylation releases BAX to mitochondria. Interacts with phosphorylated RAF1; the interaction is inhibited when YWHAZ is phosphorylated on Thr-232. Interacts with TP53; the interaction enhances p53 transcriptional activity. The Ser-58 phosphorylated form inhibits this interaction and p53 transcriptional activity. Interacts with ABL1 (phosphorylated form); the interaction retains ABL1 in the cytoplasm. Interacts with PKA-phosphorylated AANAT; the interaction modulates AANAT enzymatic activity by increasing affinity for arylalkylamines and acetyl-CoA and protecting the enzyme from dephosphorylation and proteasomal degradation. It may also prevent thiol-dependent inactivation. Interacts with AKT1; the interaction phosphorylates YWHAZ and modulates dimerization. Interacts with GAB2 and TLK2. Interacts with the 'Thr-369' phosphorylated form of DAPK2 (PubMed:26047703). Interacts with PI4KB, TBC1D22A and TBC1D22B (PubMed:23572552). Interacts with ZFP36L1 (via phosphorylated form); this interaction occurs in a p38 MAPK-and AKT-signaling pathways (By similarity). Interacts with SLITRK1 (PubMed:19640509). Post-translational Modifications: The delta, brain-specific form differs from the zeta form in being phosphorylated (By similarity). Phosphorylation on Ser-184 by MAPK8; promotes dissociation of BAX and translocation of BAX to mitochondria. Phosphorylation on Thr-232; inhibits binding of RAF1. Phosphorylated on Ser-58 by PKA and protein kinase C delta type catalytic subunit in a sphingosine-dependent fashion. Phosphorylation on Ser-58 by PKA; disrupts homodimerization and heterodimerization with YWHAZ and TP53. Similarity: Belongs to the 14-3-3 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	208973238
NCBI GeneID	7534
NCBI Accession #	NP_001129171.1
NCBI GenBank Nucleotide #	NM_001135699.1
UniProt Accession #	P63104; P29213; P29312; Q32P43; Q5XJ08; Q6GPI2; Q6IN74; Q6NUR9; Q6P3U9; Q86V33; A8K1N0; B7Z465
Molecular Weight	Observed: 28 kDa Predicted: 28 kDa
NCBI Official Full Name	14-3-3 protein zeta/delta
NCBI Official Synonym Full Names	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta
NCBI Official Symbol	YWHAZ
NCBI Official Synonym Symbols	HEL4; YWHAD; KCIP-1; HEL-S-3; HEL-S-93; 14-3-3-zeta
NCBI Protein Information	14-3-3 protein zeta/delta
UniProt Protein Name	14-3-3 protein zeta/delta
UniProt Gene Name	YWHAZ
UniProt Synonym Gene Names	KCIP-1

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.

