

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

Phospho-14-3-3 zeta/delta (Thr232) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321661	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

14-3-3 zeta/delta; Polyclonal Antibody; Phospho-14-3-3 zeta/delta (Thr232) 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; anti-YWHAZ antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-14-3-3 zeta/delta (Thr232) antibody detects endogenous levels of 14-3-3 zeta/delta only when phosphorylated at Threonine 232
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
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), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human 14-3-3 zeta/delta around the phosphorylation site of Threonine 232
Subcellular Location	Cytoplasm. Melanosome. Located to stage I to stage IV melanosomes.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Epitope	Phospho Thr232
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of 14-3-3 zeta/delta phosphorylation expression in UV treated Jurkat whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321661 staining NIH-3T3 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.



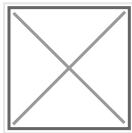
IHC (Immunohistochemistry)

AAA321661 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Phospho-14-3-3 zeta/delta (Thr232) Antibody expression in UV treated Jurkat cells lysates. The lane on the right is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA321661 at 1/100 staining human brain tissues sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 39 degree C

ADDITIONAL INFORMATION

Related Product Information for anti-YWHAZ antibody

Description: 14-3-3 zeta is a protein of the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins.

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 YHAE and TP53.

Similarity: Belongs to the 14-3-3 family.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/14-3-3-zeta-delta-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321661>