

Rabbit 14-3-3 gamma/YWHAG Polyclonal Antibody | anti-YWHAG antibody

Anti-14-3-3 gamma/YWHAG Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125716	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

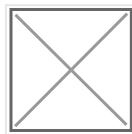
PRODUCT SYNONYMS

14-3-3 gamma/YWHAG; Polyclonal Antibody; Anti-14-3-3 gamma/YWHAG Antibody; 14-3-3 protein gamma; Protein kinase C inhibitor protein 1; KCIP-1 [Cleaved into: 14-3-3 protein gamma; N-terminally processed]; YWHAG; tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma; anti-YWHAG antibody

PRODUCT SPECIFICATIONS

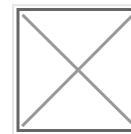
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for 14-3-3 gamma/YWHAG detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-YWHAG antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human 14-3-3 gamma/YWHAG recombinant protein (Position: Y107-A138).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A549 cells using anti-14-3-3 Gamma/YWHAG antibody (AAA125716). Overlay histogram showing A549 cells stained with AAA125716 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-14-3-3 Gamma/YWHAG Antibody (AAA125716, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of 14-3-3 Gamma/YWHAG using anti-14-3-3 Gamma/YWHAG antibody (AAA125716). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates. Lane 2: mouse brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-14-3-3 Gamma/YWHAG antigen affinity purified polyclonal antibody (Catalog # AAA125716) at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for 14-3-3 Gamma/YWHAG at approximately 28KD. The expected band size for 14-3-3 Gamma/YWHAG is at 28KD.

ADDITIONAL INFORMATION

Related Product Information for anti-YWHAG antibody	This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 100% identical to the rat ortholog. It is induced by growth factors in human vascular smooth muscle cells, and is also highly expressed in skeletal and heart muscles, suggesting an important role for this protein in muscle tissue. It has been shown to interact with RAF1 and protein kinase C, proteins involved in various signal transduction pathways.
References	1. Autieri, M. V., Carbone, C. J. 14-3-3-Gamma interacts with and is phosphorylated by multiple protein kinase C isoforms in PDGF-stimulated human vascular smooth muscle cells. DNA Cell Biol. 18: 555-564, 1999. 2. Cornell, B., Wachi, T., Zhukarev, V., Toyo-oka, K. Overexpression of the 14-3-3-gamma protein in embryonic mice results in neuronal migration delay in the developing cerebral cortex. Neurosci. Lett. 628: 40-46, 2016. 3. Horie, M., Suzuki, M., Takahashi, E., Tanigami, A. Cloning, expression, and chromosomal mapping of the human 14-3-3gamma gene (YWHAG) to 7q11. 23. Genomics 60: 241-243, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21464101
NCBI GeneID	7532
NCBI Accession #	NP_036611.2
NCBI GenBank Nucleotide #	NM_012479.3
UniProt Accession #	P61981; O70457; P35214; Q6FH52; Q9UDP2; Q9UN99
Molecular Weight	28,303 Da
NCBI Official Full Name	14-3-3 protein gamma
NCBI Official Synonym Full Names	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide
NCBI Official Symbol	YWHAG
NCBI Official Synonym Symbols	14-3-3GAMMA
NCBI Protein Information	14-3-3 protein gamma; KCIP-1; 14-3-3 gamma; protein kinase C inhibitor protein 1
UniProt Protein Name	14-3-3 protein gamma
UniProt Gene Name	YWHAG
UniProt Synonym Gene Names	KCIP-1
UniProt Entry Name	1433G_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.