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ARG52214
anti-14-3-3 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes 14-3-3
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Bov, Chk, Dog, NHuPrm, Xenopus laevis, Zfsh
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	14-3-3
Species	Rat
Immunogen	Synthetic peptide corresponding to amino acid residues from the C-terminal region conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	Protein 1054; 14-3-3 protein beta/alpha; Protein kinase C inhibitor protein 1; HS1; GW128; KCIP-1; YWHAA; HEL-S-1

Application Instructions

Application table

Application	Dilution
WB	1:1000

Application Note: Specific for the ~29k 14-3-3 protein. Immunolabeling of the 14-3-3 protein band is completely blocked by pre-adsorption of the antibody with the peptide that was used to geneRate the antibody.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

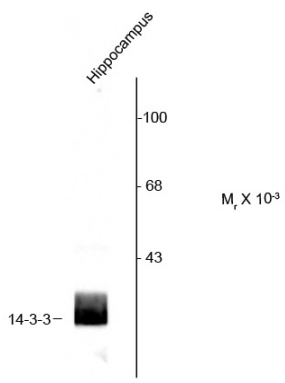
Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 56011 Rat Swiss-port # P35213 Rat
Gene Symbol	YWHAB
Gene Full Name	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta
Background	14-3-3 proteins are a family of highly conserved proteins that appear to have multiple roles in cell signaling (Bridges and Moorhead, 2005). The proteins are abundantly expressed in the brain and have been detected in the cerebrospinal fluid of patients with different neurological disorders (Berg et al., 2003). 14-3-3 proteins bind protein ligands that are typically phosphorylated on serine or threonine residues and regulate the functions of these binding partners by a number of different mechanisms (Silhan et al., 2004; Dougherty and Morrison, 2004). The 14-3-3 proteins affect a diverse array of cellular processes including the cell cycle and transcription, signal transduction and intracellular trafficking.
Research Area	Developmental Biology antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	28 kDa
PTM	The alpha, brain-specific form differs from the beta form in being phosphorylated. Phosphorylated on Ser-60 by protein kinase C delta type catalytic subunit in a sphingosine-dependent fashion.

Images



ARG52214 anti-14-3-3 antibody WB image

Western Blot: rat hippocampal lysate showing specific immunolabeling of the ~29k 14-3-3 protein stained with 14-3-3 antibody (ARG52214).