

Datasheet: AHP1048

Description:	RABBIT ANTI 14-3-3 EPSILON (N-TERMINAL)		
Specificity:	14-3-3 EPSILON (N-TERMINAL)		
Format:	Serum		
Product Type:	Polyclonal Antibody		
Isotype:	Polyclonal IgG		
Quantity:	0.1 ml		

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further				
	information. For general				
	rad-antibodies.com/proto				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry			•	
	Immunohistology - Frozen				
	Immunohistology - Paraffin (1)	•			1/400
	ELISA	•			
	Immunoprecipitation			•	
	Western Blotting				1/3000
	system using appropriate negative/positive controls. (1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.				
Target Species	Sheep				
Species Cross Reactivity	Reacts with: Human, Bovine, Chicken, Mouse, Rabbit, Rat Based on sequence similarity, is expected to react with:Mammals N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.				
Product Form	Serum - liquid				

Antiserum Preparation Antisera to sheep 14-3-3 epsilon N-terminus were raised by repeated immunisations of

	rabbits with highly purified antigen.		
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)		
Immunogen	Synthetic peptide corresponding to acetylated N-terminal sequence of sheep 14-3-3 epsilon.		
	Peptide sequence: Ac.MDDREDLVYQAKC		
External Database Links	UniProt: <u>P62262</u> <u>Related reagents</u>		
	Entrez Gene: <u>443300</u> LOC443300 <u>Related reagents</u>		
RRID	AB_2241810		
Specificity	 Rabbit anti 14-3-3 antibody recognizes the acetylated N-terminal of 14-3-3 epsilon, a member of the 14-3-3 family which consists of 30 kDa proteins involved in multiple protein kinase signalling pathways, regulation of cell cycle progression, cytoskeletal structure, transcription, intracellular trafficking and targeting. Protein interactions with 14-3-3 show distinct preference for its different isoforms and are regulated by phosphorylation of both 14-3-3 and the bound protein. 14-3-3 epsilon is expressed in all mammals. It is deleted in small cell lung cancers disrupting the G checkpoint (Wang, Z. <i>et al.</i> 2011). During apoptosis, cleavage of 14-3-3 protein by caspase-3 increases the affinity between bad and Bcl-x(L). When bound by ERK, 14-3-3 epsilon is thought to deactivate heat shock factor 1 in cells recovering from heat shock. It is also a potential suicide susceptibility gene. Rabbit anti 14-3-3 antibody may not react with recombinant proteins that are not 		
	N-acetylated.		
Histology Positive Control Tissue	Normal brain.		
Western Blotting	Rabbit anti 14-3-3 antibody detects a band/s of approximately 30kDa in HEK293 cell lysates.		
References	 Martin, H. <i>et al.</i> (1993) Antibodies against the major brain isoforms of 14-3-3 protein. An antibody specific for the N-acetylated amino-terminus of a protein. <u>FEBS Lett. 331 (3)</u>: <u>296-303.</u> Wang, Z. <i>et al.</i> (2011) The prognostic value of 14-3-3 isoforms in vulvar squamous cell carcinoma cases: 14-3-3β and ε are independent prognostic factors for these tumors. <u>PLoS One. 6: e24843.</u> Taurino, F. <i>et al.</i> (2014) Short-term type-1 diabetes differentially modulates 14-3-3 proteins in rat brain and liver. <u>Eur J Clin Invest. 44 (4): 350-8.</u> 		

	4. De, S. <i>et al.</i> (2012) Expression of 14-3-3 protein isoforms in mouse oocytes, eggs and ovarian follicular development <u>BMC Res Notes. 5: 57.</u>
Further Reading	1. Aitken, A. (2006) 14-3-3 proteins: a historic overview. <u>Semin Cancer Biol. 16 (3):</u> <u>162-72.</u>
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10081 available at: 10081: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf</u>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34)	<u>FITC</u>
Goat Anti Rabbit IgG (H/L) (STAR124) <u>HRP</u>
Goat Anti Rabbit IgG (Fc) (STAR121)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (STAR35)	RPE
Sheep Anti Rabbit IgG (STAR36)	DyLight®488, DyLight®680, DyLight®800
Recommended Useful Reagents	

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio	-rad.com	Email: antibody_sales_de@bio-rad.com

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