

Datasheet: AHP1051

Description:	RABBIT ANTI 14-3-3 TAU/THETA
Specificity:	14-3-3 TAU/THETA
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 protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin (1)	■			1/60
ELISA	■			
Immunoprecipitation			■	
Western Blotting	■			1/3000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own 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	<p>Reacts with: Human, Bovine, Chicken, Rat, Mouse, Rabbit</p> <p>Based on sequence similarity, is expected to react with: Mammals</p> <p>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.</p>
Product Form	Serum - liquid

Antiserum Preparation Antisera to sheep 14-3-3 tau/theta were raised by repeated immunisations of rabbit with

highly purified antigen.

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	<p>Synthetic peptide corresponding to acetylated N-terminal sequence of sheep 14-3-3 tau/theta.</p> <p>Peptide sequence: Ac.MEKTELIQKAC</p>
RRID	AB_770060
Specificity	<p>Rabbit anti 14-3-3 τ/θ antibody recognizes 14-3-3 tau/theta in all mammals. It is a member of the 14-3-3 family which consists of 30 kDa proteins involved in multiple cell signalling pathways, regulation of cell cycle progression, cytoskeletal structure, transcription, intracellular trafficking and targeting. Protein interactions with 14-3-3 show distinct preferences for its different isoforms and are regulated by phosphorylation of both 14-3-3 and the bound protein.</p> <p>14-3-3 tau/theta is primarily expressed in T-cells although it occurs at lower levels in the brain, heart, pancreas placenta and kidneys. It plays a role in cell cycle progression via interaction with p27(Kip1). Along with COPI, the theta isoform binds the GB1 RSR sequence involved in protein trafficking. The isoform forms a complex with Hsp60 and cellular prion protein which may be involved in prion diseases. Elevated levels of 14-3-3 tau/theta are observed in amyotrophic lateral sclerosis. 14-3-3 tau/theta also binds BCR/Abl, bacterial effector protein Tir, yes-associated protein and the FSH receptor.</p> <p>Rabbit anti 14-3-3 τ/θ antibody may not react with recombinant proteins that are not N-acetylated.</p>
Histology Positive Control Tissue	Normal tonsil tissue.
Western Blotting	AHP1051 detects a band of approximately 30kDa in HEK293 cell lysates.
References	<ol style="list-style-type: none">1. 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. FEBS Lett. 331 (3): 296-303.2. 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. PLoS One. 6: e24843.3. Taurino, F. <i>et al.</i> (2014) Short-term type-1 diabetes differentially modulates 14-3-3 proteins in rat brain and liver. Eur J Clin Invest. 44 (4): 350-8.4. De, S. <i>et al.</i> (2012) Expression of 14-3-3 protein isoforms in mouse oocytes, eggs and ovarian follicular development BMC Res Notes. 5: 57.
Further Reading	<ol style="list-style-type: none">1. Aitken, A. (2006) 14-3-3 proteins: a historic overview. Semin Cancer Biol. 16 (3): 162-72.

Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
Guarantee	18 months from date of despatch.
Health And Safety Information	<p>Material Safety Datasheet documentation #10081 available at:</p> <p>10081: https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf</p>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

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