

Datasheet: AHP1046

Description:	RABBIT ANTI 14-3-3 ETA
Specificity:	14-3-3 ETA
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

RRID AB_2218083

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)	▪			1/3200
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 Reacts with: Mouse, Human, Bovine, Chicken, Rabbit, Rat
Based on sequence similarity, is expected to react with: Mammals
N.B. Antibody reactivity and working conditions may vary between species.

Product Form Serum - liquid

Antiserum Preparation Antisera to sheep 14-3-3 eta were raised by repeated immunisations of rabbit with highly purified antigen.

Preservative Stabilisers 0.09% Sodium Azide (NaN₃)

Immunogen Synthetic peptide corresponding to acetylated N-terminal sequence of sheep 14-3-3 eta.

Peptide sequence: Ac.GDREQLLQRARC

External Database Links	UniProt: Q04917 Related reagents Entrez Gene: 7533 YWHAH Related reagents
Synonyms	YWHA1
Specificity	<p>Rabbit anti 14-3-3η antibody recognizes 14-3-3η in all mammals. It is a member of the 14-3-3 family which consists of 30 kDa proteins that are 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 it's different isoforms and are regulated by phosphorylation of both 14-3-3 and the bound protein.</p> <p>14-3-3η is expressed principally in the brain although it is expressed at low levels in other tissues. The protein binds alpha-synuclein, forming part of lewy bodies in parkinsons disease and has been linked to early-onset schizophrenia. The eta isoform binds both gremlin 1, which is overexpressed in human cancers, and the DAL-1/Protein 4.1B tumour suppressor. Furthermore the glucocorticoid receptor is positively regulated by 14-3-3- eta.</p> <p>Rabbit anti 14-3-3η antibody may not react with recombinant proteins that are not N-acetylated.</p>
Histology Positive Control Tissue	Normal brain tissue
Western Blotting	AHP1046 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. and Kline, D. (2013) Evidence for the requirement of 14-3-3eta (YWHAH) in meiotic spindle assembly during mouse oocyte maturation. BMC Dev Biol. 13: 10.
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	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: https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf
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@549](#), [DyLight@649](#),
[DyLight@680](#), [DyLight@800](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Recommended Useful Reagents

[RABBIT ANTI 14-3-3 ISOFORM PANEL \(PAN017\)](#)
[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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