

Datasheet: AHP1044

Description:	RABBIT ANTI 14-3-3 BETA
Specificity:	14-3-3 BETA
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)	▪			1/600
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, Rabbit, Human, Rat, Bovine Does not react with: Amphibia, Fungal, Fish, Invertebrates, Reptile, Yeast N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Serum - liquid
Antiserum Preparation	Antisera to sheep 14-3-3 beta were raised by repeated immunisations of rabbit 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 beta. Peptide sequence: Ac.TMDKSELVC

**External Database
Links**

UniProt:

[P68251](#)

[Related reagents](#)

Specificity

Rabbit anti 14-3-3 β antibody recognizes the acetylated N-terminal of 14-3-3 β . 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 its different isoforms and are regulated by phosphorylation of both 14-3-3 and the bound protein.

14-3-3 β plays a role in the pathogenesis of systemic lupus erythematosus and is involved in negative regulation of p90 ribosomal S6 kinase activity and tuberous sclerosis tumour suppressor proteins. It also binds IGF-1 receptor, RAF1 and CDC25 phosphatases.

Rabbit anti 14-3-3 β antibody may not react with recombinant proteins that are not N-acetylated.

**Histology Positive
Control Tissue**

Normal brain tissue

Western Blotting

AHP1044 detects a band of approximately 30kDa in HEK293 cell lysates.

References

1. Martin, H. *et al.* (1993) Antibodies against major brain isoforms of 14-3-3 protein. An antibody specific for the N-acetylated amino-terminus of a protein. [FEBS Lett. 331: 296-303.](#)
2. Chen, H.K. *et al.* (2003) Interaction of Akt-phosphorylated ataxin-1 with 14-3-3 mediates neurodegeneration in spinocerebellar ataxia type 1. [Cell. 113: 457-68.](#)
3. Wang, Z. *et al.* (2011) The prognostic value of 14-3-3 isoforms in vulvar squamous cell carcinoma cases: 14-3-3 β and ϵ are independent prognostic factors for these tumors. [PLoS One. 6: e24843.](#)
4. Baxter, H.C. *et al.* (2002) Immunolocalisation of 14-3-3 isoforms in normal and scrapie-infected murine brain. [Neuroscience. 109: 5-14.](#)
5. Chaudhri, M. *et al.* (2003) Mammalian and yeast 14-3-3 isoforms form distinct patterns of dimers in vivo. [Biochem Biophys Res Commun. 300: 679-85.](#)
6. Taurino, F. *et al.* (2014) Short-term Type-1 diabetes differentially modulates 14-3-3 proteins in rat brain and liver. [Eur J Clin Invest. 44: 350-8.](#)

Further Reading

1. Aitken, A. *et al.* (2006) 14-3-3 proteins: A historic overview. [Seminars in Cancer Biology 16: 162-172.](#)

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.

Shelf Life

18 months from the 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](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

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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