

## Datasheet: 7835-1009

|                      |                                 |
|----------------------|---------------------------------|
| <b>Description:</b>  | SHEEP ANTI HUMAN 14-3-3 PROTEIN |
| <b>Specificity:</b>  | 14-3-3                          |
| <b>Format:</b>       | Purified                        |
| <b>Product Type:</b> | Polyclonal Antibody             |
| <b>Isotype:</b>      | Polyclonal IgG                  |
| <b>Quantity:</b>     | 1 ml                            |

## Product Details

**RRID** AB\_2217775

**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](http://www.bio-rad-antibodies.com/protocols).

|                  | Yes | No | Not Determined | Suggested Dilution |
|------------------|-----|----|----------------|--------------------|
| Western Blotting | ■   |    |                | 1/10 - 1/50        |

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 the appropriate negative/positive controls.

**Target Species** Human

**Product Form** Purified Ig - liquid

**Preparation** Purified Ig prepared by affinity chromatography on Protein G

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

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** 0.09% Sodium Azide (NaN<sub>3</sub>)

**Approx. Protein Concentrations** Ig concentration 2.5 mg/ml

**Immunogen** Native 14-3-3 protein, purified from pathogen-free normal human brain.

**External Database Links**

**UniProt:**

[P63104](#) [Related reagents](#)

[Q04917](#) [Related reagents](#)

[P27348](#) [Related reagents](#)

[P62258](#) [Related reagents](#)  
[P31947](#) [Related reagents](#)  
[P61981](#) [Related reagents](#)  
[P31946](#) [Related reagents](#)

**Entrez Gene:**

[7534](#) YWHAZ [Related reagents](#)  
[7533](#) YWHAH [Related reagents](#)  
[2810](#) SFN [Related reagents](#)  
[7531](#) YWHAE [Related reagents](#)  
[7532](#) YWHAG [Related reagents](#)  
[10971](#) YWHAQ [Related reagents](#)  
[7529](#) YWHAB [Related reagents](#)

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**Synonyms**

HME1, YWHA1

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**Specificity**

**Sheep anti Human 14-3-3 antibody** recognises the lower molecular weight subunit (26 kDa) of protein 14-3-3.

The 14-3-3 family consists of ~30 kDa proteins involved in multiple cellular processes including protein kinase signalling pathways, regulation of cell cycle progression, transcription and intracellular trafficking. 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 ([Bax and Jhoti 1995](#))

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**References**

1. Boston, P.F. *et al.* (1982) Purification, properties, and immunohistochemical localisation of human brain 14-3-3 protein. [J Neurochem. 38 \(5\): 1466-74.](#)
2. Maronde, E. *et al.* (2011) Dynamics in enzymatic protein complexes offer a novel principle for the regulation of melatonin synthesis in the human pineal gland. [J Pineal Res. 51: 145-55.](#)

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**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.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [DyLight@488](#), [DyLight@549](#), [DyLight@649](#),  
[FITC](#), [HRP](#)

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

### Recommended Useful Reagents

RABBIT ANTI 14-3-3 ISOFORM PANEL (PAN017)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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