

## Datasheet: AHP2417

**BATCH NUMBER 151835**

<b>Description:</b>	RABBIT ANTI ACTIN BETA
<b>Specificity:</b>	ACTIN BETA
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

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

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/200

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.

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Mouse, Rat

**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

Purified IgG - liquid

#### Preparation

Purified IgG prepared by affinity chromatography

#### Antiserum Preparation

Antiserum to actin beta was raised by repeated immunisation of rabbits with highly purified antigen

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

0.1% Sodium Azide (NaN<sub>3</sub>)

0.2% Gelatin

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**Approx. Protein Concentrations** IgG concentration 0.2 mg/ml

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**Immunogen** Peptide mapping to the terminal domain of human actin beta

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**External Database Links**

**UniProt:**

[P60709](#)    [Related reagents](#)

**Entrez Gene:**

[60](#) ACTB    [Related reagents](#)

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**Specificity** **Rabbit anti actin beta antibody** recognizes the product of the ACTB gene, cytoplasmic actin beta, also known as actin cytoplasmic and beta actin1. Actin beta is ubiquitously expressed in all eukaryotic cells, playing a critical role in cell survival, motility and re-modeling.

Actin beta is highly conserved throughout evolution, with all vertebrate and invertebrate species reviewed to date bearing a 98% or greater amino acid primary sequence identity to human actin beta. Plant species also exhibit a high degree of primary sequence conservation displaying considerable similarity to animal actin beta. For example, nearly 90% sequence identity is observed between human ACTB and the model plant species *Arabidopsis thaliana* (mouse eared cress) ACT1 (*Arabidopsis*) gene products. Actin beta is a commonly used western blotting loading control.

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**Western Blotting** Rabbit anti actin beta recognizes a band of approximately 42 kDa when run under reducing conditions

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**References**

1. Chen, X.J. *et al.* (2018) Association of reduced sclerostin expression with collapse process in patients with osteonecrosis of the femoral head. [Int Orthop. 42 \(7\): 1675-82.](#)
2. Savova, M.S. *et al.* (2021) Ziziphus jujuba Mill. leaf extract restrains adipogenesis by targeting PI3K/AKT signaling pathway. [Biomed Pharmacother. 141: 111934.](#)
3. ElSayed, M.H. *et al.* (2023) Betanin improves motor function and alleviates experimental Parkinsonism via downregulation of TLR4/MyD88/NF-κB pathway: Molecular docking and biological investigations. [Biomed Pharmacother. 164: 114917.](#)

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**Storage** Store at +4°C. DO NOT FREEZE.  
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #20341 available at: <https://www.bio-rad-antibodies.com/SDS/AHP2417>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

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

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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