

# Datasheet: AHP2417

**BATCH NUMBER 163093**

<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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Mouse, Rat</p> <p><b>N.B.</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>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography
<b>Antiserum Preparation</b>	Antiserum to actin beta was raised by repeated immunisation of rabbits with highly purified antigen
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> )

0.2% Gelatin

Approx. Protein Concentrations	IgG concentration 0.2 mg/ml
Immunogen	Peptide mapping to the terminal domain of human actin beta
External Database Links	<b>UniProt:</b> <a href="#">P60709</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">60</a> ACTB <a href="#">Related reagents</a>
Specificity	<p><b>Rabbit anti actin beta antibody</b> 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.</p> <p>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 <i>Arabidopsis thaliana</i> (mouse eared cress) ACT1 (<i>Arabidopsis</i>) gene products. Actin beta is a commonly used western blotting loading control.</p>
Western Blotting	Rabbit anti actin beta recognizes a band of approximately 42 kDa when run under reducing conditions
References	<ol style="list-style-type: none"><li>1. Chen, X.J. <i>et al.</i> (2018) Association of reduced sclerostin expression with collapse process in patients with osteonecrosis of the femoral head. <a href="#">Int Orthop. 42 (7): 1675-82.</a></li><li>2. Savova, M.S. <i>et al.</i> (2021) Ziziphus jujuba Mill. leaf extract restrains adipogenesis by targeting PI3K/AKT signaling pathway. <a href="#">Biomed Pharmacother. 141: 111934.</a></li><li>3. ElSayed, M.H. <i>et al.</i> (2023) Betanin improves motor function and alleviates experimental Parkinsonism via downregulation of TLR4/MyD88/NF-κB pathway: Molecular docking and biological investigations. <a href="#">Biomed Pharmacother. 164: 114917.</a></li></ol>
Storage	<p>Store at +4°C. DO NOT FREEZE.</p> <p>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20341 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP2417">https://www.bio-rad-antibodies.com/SDS/AHP2417</a> 20341
Regulatory	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

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

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

### Recommended Useful Reagents

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

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

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

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