

Datasheet: AHP2417

BATCH NUMBER 163093

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|----------------------|------------------------|
| Description: | RABBIT ANTI ACTIN BETA |
| Specificity: | ACTIN BETA |
| Format: | Purified |
| Product Type: | Polyclonal Antibody |
| Isotype: | Polyclonal IgG |
| Quantity: | 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.

| | 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 (NaN₃)

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

UniProt:

[P60709](#) [Related reagents](#)

Entrez Gene:

[60](#) ACTB [Related reagents](#)

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.

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

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.](#)

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.

Guarantee 12 months from date of despatch

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

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 \(STAR209P\)](#)

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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

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