

Datasheet: AHP1797

**BATCH NUMBER 169683**

<b>Description:</b>	RABBIT ANTI RIP3
<b>Specificity:</b>	RIP3
<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
Immunohistology - Paraffin (1)	▪			5ug/ml
Western Blotting	▪			0.5 - 1.0ug/ml

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. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

### Target Species

Mouse

### Species Cross Reactivity

Reacts with: 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

### Antiserum Preparation

Antisera to mouse RIP3 were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.

### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Synthetic peptide sequence corresponding to amino acids 473-486 of mouse RIP3.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9QZL0</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">56532</a> Ripk3    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Rip3
<b>RRID</b>	AB_2178676
<b>Specificity</b>	<p><b>Rabbit anti RIP3 antibody</b> recognizes mouse serine-threonine kinase receptor-interacting protein 3 (RIP3). RIP3 is related to RIP and RIP2 but does not possess a death domain or CARD motif at its C-terminus. RIP3 activates NF-Kappa B and potently induces apoptosis.</p> <p>RIP3 is expressed in a range of tissues including the spleen, liver, testis, heart, brain and lung.</p>
<b>Histology Positive Control Tissue</b>	Rat kidney
<b>Western Blotting</b>	AHP1797 detects a band of approximately 56 kDa in Mouse 3T3 whole cell lysate
<b>References</b>	<ol style="list-style-type: none"> <li>Feng, S. <i>et al.</i> (2007) Cleavage of RIP3 inactivates its caspase-independent apoptosis pathway by removal of kinase domain. <a href="#">Cell Signal. 19 (10): 2056-67.</a></li> <li>Günther, C. <i>et al.</i> (2011) Caspase-8 regulates TNF-<math>\alpha</math>-induced epithelial necroptosis and terminal ileitis. <a href="#">Nature. 477: 335-9.</a></li> <li>Mizumura, K. <i>et al.</i> (2014) Mitophagy-dependent necroptosis contributes to the pathogenesis of COPD. <a href="#">J Clin Invest. 124 (9): 3987-4003.</a></li> <li>Huang, S.C. <i>et al.</i> (2014) Tumor necrosis factor suppresses NR5A2 activity and intestinal glucocorticoid synthesis to sustain chronic colitis. <a href="#">Sci Signal. 7 (314): ra20.</a></li> <li>Meng, L. <i>et al.</i> (2015) RIP3-mediated necrotic cell death accelerates systematic inflammation and mortality. <a href="#">Proc Natl Acad Sci U S A. 112 (35): 11007-12.</a></li> <li>Mizumura, K. <i>et al.</i> (2018) Sphingolipid regulation of lung epithelial cell mitophagy and necroptosis during cigarette smoke exposure. <a href="#">FASEB J. 32 (4): 1880-90.</a></li> <li>Najafov, A. <i>et al.</i> (2019) TAM Kinases Promote Necroptosis by Regulating Oligomerization of MLKL. <a href="#">Mol Cell. 75 (3): 457-468.e4.</a></li> <li>Matsuzawa-Ishimoto, Y. <i>et al.</i> (2022) The <math>\gamma\delta</math> IEL effector API5 masks genetic susceptibility to Paneth cell death. <a href="#">Nature. 610 (7932): 547-54.</a></li> <li>Bernard-Raichon, L. <i>et al.</i> (2026) Type I and III interferons synergize with TNF to promote virally-triggered damage to the intestinal epithelium <a href="#">bioRxiv. 12 Jan [Preprint].</a></li> </ol>

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<b>Further Reading</b>	<ol style="list-style-type: none"><li>1. Yu, P.W. <i>et al.</i> (1999) Identification of RIP3, a RIP-like kinase that activates apoptosis and NFkappaB. <a href="#">Curr Biol. 9 (10): 539-42.</a></li><li>2. Sun, X., et al (1999) RIP3, a novel apoptosis-inducing kinase. <a href="#">J Biol Chem. 274:16871-5.</a></li><li>3. Pazdernik, N.J., et al (1999) Mouse receptor interacting protein 3 does not contain a caspase-recruiting or a death domain but induces apoptosis and activates NF-κB. <a href="#">Mol Cell Bio.19:6500-8</a></li></ol>
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<b>Storage</b>	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.
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Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP1797">https://www.bio-rad-antibodies.com/SDS/AHP1797</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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

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Printed on 17 Jan 2026