Datasheet: AHP1797

Description:	RABBIT ANTI RIP3
Specificity:	RIP3
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
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

Preservative

0.02% Sodium Azide (NaN_3)

Stabilisers	
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Synthetic peptide sequence corresponding to amino acids 473-486 of mouse RIP3.
External Database Links	**UniProt:** Q9QZL0 Related reagents **Entrez Gene:** 56532 Ripk3 Related reagents
Synonyms	Rip3
RRID	AB_2178676
Specificity	**Rabbit anti RIP3 antibody** recognizes mouse serine-threonine kinase receptor-interacting protein 3 (RIP3). RIP3 is related to RIP and RIP2 but does not posses a death domain or CARD motif at its C-terminus. RIP3 activates NF-Kappa B and potently induces apoptosis. RIP3 is expressed in a range of tissues including the spleen, liver, testis, heart, brain and lung.
Histology Positive Control Tissue	Rat kidney
Western Blotting	AHP1797 detects a band of approximately 56 kDa in Mouse 3T3 whole cell lysate
References	1. Feng, S. *et al.* (2007) Cleavage of RIP3 inactivates its caspase-independent apoptosis pathway by removal of kinase domain. Cell Signal. 19 (10): 2056-67. 2. Günther, C. *et al.* (2011) Caspase-8 regulates TNF-α-induced epithelial necroptosis and terminal ileitis. Nature. 477: 335-9. 3. Mizumura, K. *et al.* (2014) Mitophagy-dependent necroptosis contributes to the pathogenesis of COPD. J Clin Invest. 124 (9): 3987-4003. 4. Huang, S.C. *et al.* (2014) Tumor necrosis factor suppresses NR5A2 activity and intestinal glucocorticoid synthesis to sustain chronic colitis. Sci Signal. 7 (314): ra20. 5. Meng, L. *et al.* (2015) RIP3-mediated necrotic cell death accelerates systematic inflammation and mortality. Proc Natl Acad Sci U S A. 112 (35): 11007-12. 6. Mizumura, K. *et al.* (2018) Sphingolipid regulation of lung epithelial cell mitophagy and necroptosis during cigarette smoke exposure. FASEB J. 32 (4): 1880-90. 7. Najafov, A. *et al.* (2019) TAM Kinases Promote Necroptosis by Regulating Oligomerization of MLKL. Mol Cell. 75 (3): 457-468.e4. 8. Matsuzawa-Ishimoto, Y. *et al.* (2022) The γδ IEL effector API5 masks genetic susceptibility to Paneth cell death. Nature. 610 (7932): 547-54.
Further Reading	1. Yu, P.W. *et al.* (1999) Identification of RIP3, a RIP-like kinase that activates apoptosis and NFkappaB. Curr Biol. 9 (10): 539-42.

2. Sun, X., et al (1999) RIP3, a novel apoptosis-inducing kinase. J Biol Chem. 274:16871-5.
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. Mol Cell Bio.19:6500-8

Storage	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. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1797 10040
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)
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
'M382827:210513'

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