Product Datasheet

RIPK3/RIP3 Antibody - BSA Free NBP1-77299

Unit Size: 0.1 mg

Store at 4C.



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NBP1-77299

RIPK3/RIP3 Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	53 kDa
Product Description	
Host	Rabbit
Gene ID	11035
Gene Symbol	RIPK3
Species	Human, Mouse, Rat
Reactivity Notes	Human, mouse and rat reactivity reported in multiple pieces of scientific literature.
Specificity/Sensitivity	Mouse RIPK3/RIP3 Antibody has one isoform (486aa, 53 kDa). Human RIP3 has 3 isoforms, including isoform 1 (518aa, 57 kDa), isoform 2 (252aa, 28 kDa) and isoform 3 (231aa, 25 kDa). Rat RIP3 also has one isoform (478aa, 52 kDa). NBP1-77299 can detect can detect isoforms of mouse and rat as well as human isoform 1.
Immunogen	RIPK3/RIP3 Antibody was made to a 14 amino acid peptide near the carboxy terminus of murine RIP3. The immunogen is located within the last 50 amino acids of RIP3. Amino Acid Squence: AQFGRGRGWQPFHK
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Gel Supershift Assay, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 0.1-0.5 ug/ml, ELISA 1:100 - 1:2000, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 20 ug/ml, Immunoprecipitation 20 ug/mL, Immunohistochemistry-Paraffin 5 ug/ml, Gel Supershift Assay, Knockout Validated, Knockdown Validated
Application Notes	Gel supershift assay reported in scientific literature [PMID: 27721066]. Immunoprecipitation reported in scientific literature [PMID: 27861127]. RIPK3/RIP3 antibody validated for WB from a verified customer review. Knockout validation reported in scientific literature [PMID: 32246911]. Knockdown validation reported in scientific literature [PMID: 31655343]. ICC/IF, IHC, and WB reported in multiple pieces of scientific literature.







Immunocytochemistry/Immunofluorescence: RIPK3/RIP3 Antibody [NBP1-77299] - ICC/IF analysis of Rat's kidney cell culture using RIPK3/RIP3 Antibody [NBP1-77299] at 20 ug/mL concentration.



Western Blot: RIPK3/RIP3 Antibody [NBP1-77299] - C2C12 Cells. 15 ug of lysates per lane. Antibodies: RIPK3/RIP3 antibody [NBP1-77299], 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: NBP1-77299, 0.1 ug/mL in the presence of peptide blocking. Lane 2: NBP1-77299, 0.1 ug/mL Lane 3: NBP1-77299, 0.2 ug/mL Lane 4: NBP1-77299, 0.5 ug/mL. Observed molecular weight ~55 kDa. Theoretical molecular weight 53 kDa.	KDa 1234 250 - 130 - 95 - 72 - 55 - 36 - 28 -
Western Blot: RIPK3/RIP3 Antibody [NBP1-77299] - Human Cell Lines. 15 ug of lysates per lane. Antibodies: RIPK3/RIP3 antibody [NBP1- 77299], (0.5 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Observed molecular weight ~ 57 kDa. Theoretical molecular weight 53 kDa.	KDa 15 KDa 95- 72- 55- 36- 28-
Immunohistochemistry-Paraffin: RIPK3/RIP3 Antibody [NBP1-77299] - Rat kidney tissue with RIPK3/RIP3 Antibody [NBP1-77299] at 5 ug/mL.	







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Western Blot: RIPK3/RIP3 Antibody - BSA Free [NBP1-77299] - p-MLKL levels are nearly undetectable in advanced plagues. (A-C) After 3 months on a Western diet, protein was collected from control (n=7), Ripk3 Δ M Φ -Cre (n=5), Ripk3 Δ EC-Cre (n=3) & Ripk3 Δ SMC-Cre (n=3) aortas. Protein lysates were immunoblotted to identify p-MLKL (Abcam; #ab196436), MLKL & β-actin (loading control) (A) & guantified (B,C). A faint positive p-MLKL signal can be seen in the representative blot in the control arch region; however, we could only detect p-MLKL in two out of the 18 aortas analyzed (B). Note that the same transfer membrane used 37 for detecting CD11b (in Fig. 4S) was reprobed for p-MLKL & MLKL in A; the β -actin control blots are therefore the same in both figures. (D,E) Protein lysates were immunoblotted to identify RIPK3 & GAPDH (loading control) (D) & quantified (E). For panels B,C,E, each dot represents an individual animal. Statistics were calculated using two-way ANOVA. Overall ANOVA P-values are 0.76 (B), 0.07 (C) & 0.46 (E). Data are mean±s.d. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31953345), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Rudalska R, Harbig J, Snaebjornsson M et al. LXR alpha activation and Raf inhibition trigger lethal lipotoxicity in liver cancer Nature Cancer 2021-02-01 [PMID: 35122079]

Wu Z, Fournel L, Stadler N et al. Modulation of lung cancer cell plasticity and heterogeneity with the restoration of cisplatin sensitivity by Neurotensin antibody Cancer Lett. 2018-12-21 [PMID: 30583074]

Jia Y, Cheng L, Yang J et al. miR-223-3p Prevents Necroptotic Macrophage Death by Targeting Ripk3 in a Negative Feedback Loop and Consequently Ameliorates Advanced Atherosclerosis Arteriosclerosis, thrombosis, and vascular biology 2023-11-16 [PMID: 37970714]

Selvarani R, Van Michelle Nguyen H, Thadathil N et al. Characterization of novel mouse models to study the role of necroptosis in aging and age-related diseases GeroScience 2023-10-04 [PMID: 37792157] (Western Blot, Mouse)

Taraborrelli L, ?enbabao?lu Y, Wang L et al. Tumor-intrinsic expression of the autophagy gene Atg16l1 suppresses anti-tumor immunity in colorectal cancer Nat Commun 2023-09-23 [PMID: 37741832] (Western Blot)

Zhou H, Liu L, Ma X et al. RIP1/RIP3/MLKL-mediated necroptosis contributes to vinblastine-induced myocardial damage Molecular and Cellular Biochemistry 2021-02-01 [PMID: 33247805]

Zhou H, Zhou L, Guan Q et al. Skp2-mediated MLKL degradation confers cisplatin-resistant in non-small cell lung cancer cells Communications Biology 2023-08-02 [PMID: 37532777]

Yan WT, Zhao WJ, Hu XM et al. PANoptosis-like cell death in ischemia/reperfusion injury of retinal neurons Neural Regen Res 2022-07-28 [PMID: 35900430]

Lee J, Lee S, Min S, Kang SW. RIP3-Dependent Accumulation of Mitochondrial Superoxide Anions in TNF-?-Induced Necroptosis Molecules and Cells 2022-04-30 [PMID: 35289306] (Block/Neutralize)

Thadathil N, Nicklas EH, Mohammed S et al. Necroptosis increases with age in the brain and contributes to agerelated neuroinflammation GeroScience 2021-10-01 [PMID: 34515928] (Block/Neutralize)

Wen H, Chen J, Zhao B et al. Repression of ferroptotic cell death by mitochondrial calcium signaling Research square 2023-07-10 [PMID: 37502961] (IP, WB, Human)

Mohammed S, Thadathil N, Ohene-Marfo P et al. Absence of either Ripk3 or Mlkl reduces incidence of hepatocellular carcinoma independent of liver fibrosis Molecular cancer research : MCR 2023-05-19 [PMID: 37204757] (WB, Mouse)

More publications at <u>http://www.novusbio.com/NBP1-77299</u>





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Products Related to NBP1-77299

NBP1-77299PEP	RIPK3/RIP3 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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