

Product Datasheet

RBCK1 Antibody - BSA Free

NBP1-88301

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-88301

RBCK1 Antibody - BSA Free

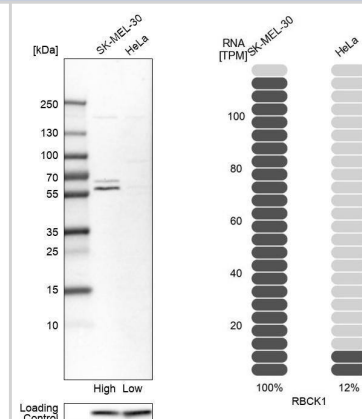
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	10616
Gene Symbol	RBCK1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 30209176). Expected reactivity in Rat (88%).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: SVEDAQMHTVTIWLTVRPDMTVASLKDMVFLDYGFPPVLQQWVIGQRLARDQ ETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQRERQLRMLLEDLGFKDLTLQP RGPLEPGPPKPGVPQEPGRGQPDVPEP

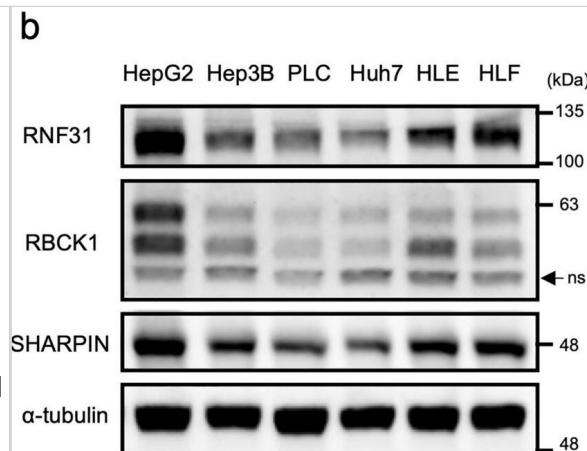
Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 0.04 - 0.4 ug/ml

Images

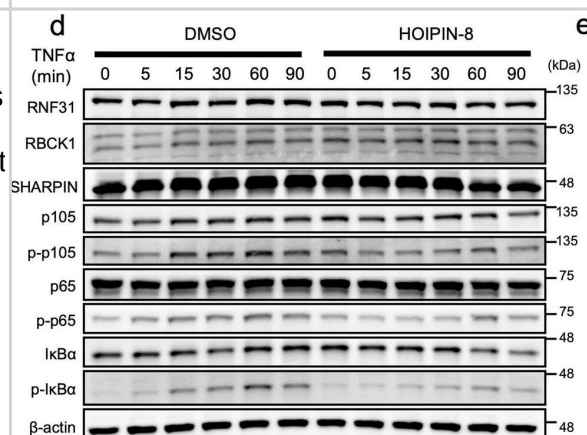
Analysis in human cell lines SK-MEL-30 and HeLa using Anti-RBCK1 antibody. Corresponding RBCK1 RNA-seq data are presented for the same cell lines. Loading control: Anti-PFN1.



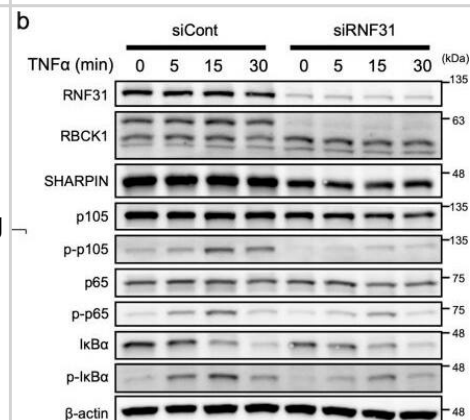
Expression of RNF31 in HCC cell lines and evaluation of RNF31 knockdown. (a) The mRNA level of RNF31 was evaluated in the HepG2, Hep3B, PLC, Huh7, HLE, and HLF cell lines by qPCR. mRNA level of RNF31 in Huh7 cells was used as reference. (b) The protein expression levels of RNF31, RBCK1, and SHARPIN were evaluated by Western blotting. (c) The effect of RNF31 knockdown was evaluated using Western blotting for HepG2, Hep3B, and PLC cells transfected with control (siCont) and RNF31-specific siRNAs (siRNA1-3). For quantification, normalized RNF31/b-actin level in parental cells was used as reference. d. The effect of RNF31 knockdown was evaluated using qPCRs. mRNA level of RNF31/GAPDH in control cells was used as reference. * $P < 0.05$; ns, non-specific; n.s., not significant; siCont, control siRNA. Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41598-023-50594-3>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



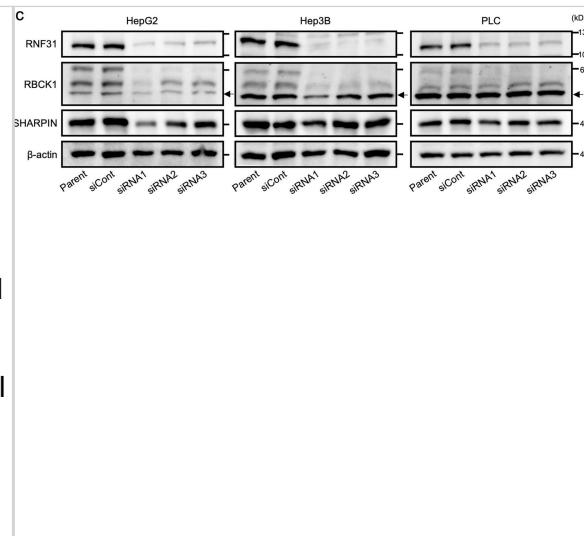
Inhibition of RNF31 with HOIPIN-8 decreases proliferation, invasion, and NF-κB activation in HCC cell lines. (a) Cell proliferation was evaluated in HepG2 and Hep3B cells treated with 100 μM HOIPIN-8. (b) Invasion was evaluated in HepG2 and Hep3B cells in the presence of 10 or 30 μM HOIPIN-8. Representative images of invading cells are shown in the right panel. Cell nuclei are stained in purple. (c) Expression of NF-κB target genes in HepG2 and Hep3B cells was evaluated by qPCR. Cells were pretreated with 30 μM HOIPIN-8 for 1 h, followed by stimulation with 10 ng/mL TNF-α for 2 h. (d) Phosphorylation of NF-κB signaling factors upon TNF-α stimulation was evaluated in HepG2 cells with or without 30 μM HOIPIN-8. Cell lysates were immunoblotted by the indicated antibodies. (e) Effect of HOIPIN-8 on TNF-α + CHX-mediated apoptosis in HepG2 and Hep3B cells. Cells were pre-treated with HOIPIN-8 for 1 h and then stimulated with 40 ng/mL TNF-α and 20 μg/mL CHX for 0, 4, and 8 h, and cell lysates were immunoblotted by the indicated antibodies. * $P < 0.05$; n.s., not significant; Cas-3, caspase-3; cl-Cas-3, cleaved caspase-3; CHX, cycloheximide. Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41598-023-50594-3>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



RNF31 knockdown inhibits TNF-α-induced NF-κB activation in HCC cell lines. (a) NF-κB activity was evaluated in HepG2 and Hep3B cells transfected with RNF31 siRNAs using a dual luciferase assay. Cells were treated with TNF-α at 10 ng/mL for 6 h. (b) Evaluation of phosphorylation of NF-κB signaling factors induced by TNF-α in HepG2 cells after RNF31 knockdown. * $P < 0.05$; n.s., not significant; siCont, control siRNA. Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41598-023-50594-3>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Expression of RNF31 in HCC cell lines and evaluation of RNF31 knockdown. (a) The mRNA level of RNF31 was evaluated in the HepG2, Hep3B, PLC, Huh7, HLE, and HLF cell lines by qPCR. mRNA level of RNF31 in Huh7 cells was used as reference. (b) The protein expression levels of RNF31, RBCK1, and SHARPIN were evaluated by Western blotting. (c) The effect of RNF31 knockdown was evaluated using Western blotting for HepG2, Hep3B, and PLC cells transfected with control (siCont) and RNF31-specific siRNAs (siRNA1-3). For quantification, normalized RNF31/b-actin level in parental cells was used as reference. d. The effect of RNF31 knockdown was evaluated using qPCRs. mRNA level of RNF31/GAPDH in control cells was used as reference. *P < 0.05; ns, non-specific; n.s., not significant; siCont, control siRNA. Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41598-023-50594-3>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Kouki Hoshino, Seshiru Nakazawa, Takehiko Yokobori, Kei Hagiwara, Norihiro Ishii, Mariko Tsukagoshi, Takamichi Igarashi, Kenichiro Araki, Norifumi Harimoto, Fuminori Tokunaga, Ken Shirabe RNF31 promotes proliferation and invasion of hepatocellular carcinoma via nuclear factor kappaB activation Scientific Reports 2024-01-03 [PMID: 38172174]

RB Damgaard, PR Elliott, KN Swatek, ER Maher, P Stepensky, O Elpeleg, D Komander, Y Berkun OTULIN deficiency in ORAS causes cell type-specific LUBAC degradation, dysregulated TNF signalling and cell death EMBO Mol Med, 2019-03-01;11(3):. 2019-03-01 [PMID: 30804083]

Peng R, Wang CK, Wang-Kan X et al. Human ZBP1 induces cell death-independent inflammatory signaling via RIPK3 and RIPK1 EMBO reports 2022-10-21 [PMID: 36268590] (WB, Human)

Douglas T, Saleh M Cross-regulation between LUBAC and caspase-1 modulates cell death and inflammation J. Biol. Chem. 2020-03-02 [PMID: 32122970] (IP)

Yamanaka S, Sato Y, Oikawa D et al. Subquinocin, a small molecule inhibitor of CYLD and USP-family deubiquitinating enzymes, promotes NF-kappa B signaling Biochem. Biophys. Res. Commun. 2019-12-30 [PMID: 31898971]

MacDuff DA, Baldridge MT, Qaqish AM et al. HOIL1 is essential for the induction of type I and III interferons by MDA5 and regulates persistent murine norovirus infection. J. Virol. 2018-09-12 [PMID: 30209176] (WB, Mouse)

Polajnar M, Dietz MS, Heilemann M, Behrends C. Expanding the host cell ubiquitylation machinery targeting cytosolic Salmonella EMBO Rep. 2017-08-06 [PMID: 28784601] (Human)

Shibata Y, Tokunaga F, Goto E et al. HTLV-1 Tax Induces Formation of the Active Macromolecular IKK Complex by Generating Lys63- and Met1-Linked Hybrid Polyubiquitin Chains PLoS Pathog 2017-01-01 [PMID: 28103322] (IB, Human)

Nakazawa S, Oikawa D, Ishii R et al. Linear ubiquitination is involved in the pathogenesis of optineurin-associated amyotrophic lateral sclerosis. Nat Commun. 2016-08-24 [PMID: 27552911] (WB)

Klein T, Fung SY, Renner F et al. The paracaspase MALT1 cleaves HOIL1 reducing linear ubiquitination by LUBAC to dampen lymphocyte NF-kappa signalling. Nat Commun 2015-11-03 [PMID: 26525107] (WB, Human)

Lewis MJ, Vyse S, Shields AM et al. UBE2L3 Polymorphism Amplifies NF-kappa Activation and Promotes Plasma Cell Development, Linking Linear Ubiquitination to Multiple Autoimmune Diseases. Am J Hum Genet 2015-02-05 [PMID: 25640675] (WB, Human)

Kato K, Ishii R, Goto E et al. Structural and Functional Analyses of DNA-Sensing and Immune Activation by Human cGAS. PLoS One. 2013-10-07 [PMID: 24116191] (WB, Human)

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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