

# Product Datasheet

## RNF111 Antibody (1C4) - Azide and BSA Free H00054778-M05

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00054778-M05**

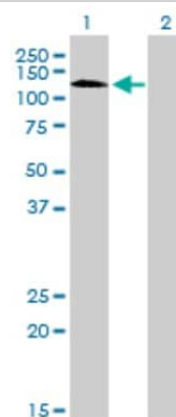
RNF111 Antibody (1C4) - Azide and BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	1C4
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse RNF111 Antibody (1C4) - Azide and BSA Free (H00054778-M05) is a monoclonal antibody validated for use in WB, ELISA and ICC/IF. Anti-RNF111 Antibody: Cited in 14 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	54778
<b>Gene Symbol</b>	RNF111
<b>Species</b>	Human
<b>Specificity/Sensitivity</b>	RNF111 - ring finger protein 111
<b>Immunogen</b>	RNF111 (NP_060080, 1 a.a. ~ 108 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MSQWTPEYNELYTLKVDKSEIPSDAPKTQESLKGILLHPEPIGAAKSFPAGVE MINSKVGNEFSHLCDDSQKQEKEMNGNQEQEKSLVVRKKRKSQQAGPSYV QNC
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA, Immunocytochemistry/ Immunofluorescence, Knockdown Validated
<b>Application Notes</b>	Antibody reactive against recombinant protein for western blot. It has also been used for RNAi validation and ELISA.

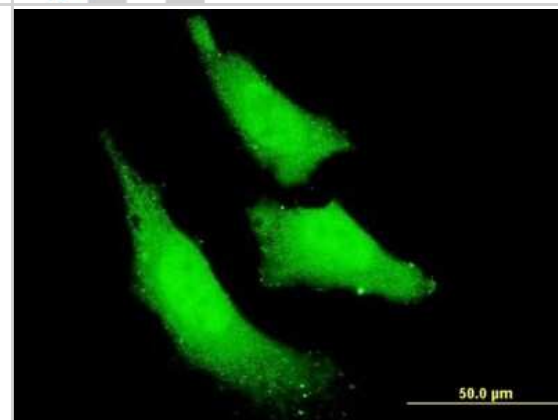


## Images

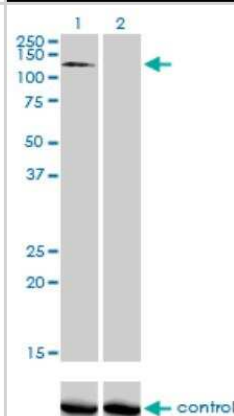
Western Blot: RNF111 Antibody (1C4) [H00054778-M05] - Analysis of RNF111 expression in transfected 293T cell line by RNF111 monoclonal antibody (M05), clone 1C4. Lane 1: RNF111 transfected lysate (107.8 KDa). Lane 2: Non-transfected lysate.



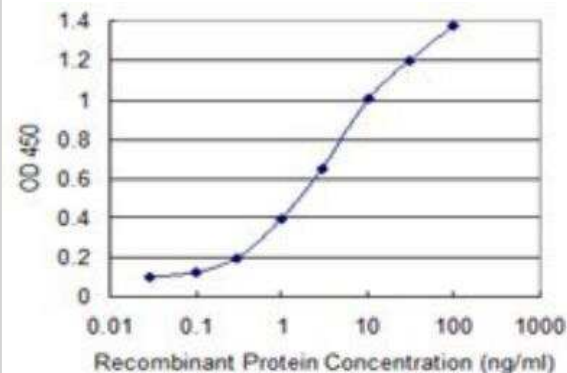
Immunocytochemistry/Immunofluorescence: RNF111 Antibody (1C4) [H00054778-M05] - Analysis of monoclonal antibody to RNF111 on HeLa cell. Antibody concentration 10 ug/ml



Western Blot: RNF111 Antibody (1C4) [H00054778-M05] - Western blot analysis of RNF111 over-expressed 293 cell line, cotransfected with RNF111 Validated Chimera RNAi or non-transfected control. Blot probed with H00054778-M05. GAPDH (36.1 kDa) used as loading control.



ELISA: RNF111 Antibody (1C4) [H00054778-M05] - Detection limit for recombinant GST tagged RNF111 is 0.03 ng/ml as a capture antibody.



## Publications

Amhaz S, Boëda B, Chouchène M et al. The UAS thioredoxin-like domain of UBXN7 regulates E3 ubiquitin ligase activity of RNF111/Arkadia BMC biology 2023-04-07 [PMID: 37024974]

Y Sun, LM Miller Jen, YP Su, KC Nitiss, JL Nitiss, Y Pommier A conserved SUMO pathway repairs topoisomerase DNA-protein cross-links by engaging ubiquitin-mediated proteasomal degradation Sci Adv, 2020-11-13;6(46):. 2020-11-13 [PMID: 33188014]

Victor L, Florent D, Sadek A et al. Quantitative ubiquitylome analysis reveals specificity of RNF111/Arkadia E3 ubiquitin ligase for its degradative substrates SKI and SKIL/SnoN in TGF- $\beta$  signaling pathway. Mol Cell Proteomics. 2021-11-03 [PMID: 34740826]

McIntosh DJ, Walters TS, Arinze IJ et al. Arkadia (RING Finger Protein 111) Mediates Sumoylation-Dependent Stabilization of Nrf2 Through K48-Linked Ubiquitination. Cell Physiol Biochem 2018-03-23 [PMID: 29597191]

Gonzalez-Prieto R, Cuijpers SA, Kumar R et al. c-Myc is targeted to the proteasome for degradation in a SUMOylation-dependent manner, regulated by PIAS1, SENP7 and RNF4. Cell Cycle 2015-01-01 [PMID: 25895136] (WB)

Nagano Y, Koinuma D, Miyazawa K, Miyazono K. Context-dependent regulation of the expression of c-Ski protein by Arkadia in human cancer cells. J Biochem. 2009-12-02 [PMID: 19959502]

Javelaud D, van Kempen L, Alexaki VI et al. Efficient TGF- $\beta$ /SMAD signaling in human melanoma cells associated with high c-SKI/SnoN expression. Mol Cancer. 2011-01-06 [PMID: 21211030]

Koinuma D, Shinozaki M, Nagano Y et al. RB1CC1 positively regulates transforming growth factor- $\beta$  signaling through the modulation of Arkadia E3 ubiquitin ligase activity. J Biol Chem. 2011-07-27 [PMID: 21795712]

Ma T, Chen Y, Zhang F et al. RNF111-Dependent Neddylation Activates DNA Damage-Induced Ubiquitination. Mol Cell. 2013-02-07 [PMID: 23394999]

Erker Y, Neyret-Kahn H, Seeler JS et al. Arkadia, a Novel SUMO-Targeted Ubiquitin Ligase Involved in PML Degradation. Mol Cell Biol. 2013-03-25 [PMID: 23530056]

Poulsen SL, Hansen RK, Wagner SA et al. RNF111/Arkadia is a SUMO-targeted ubiquitin ligase that facilitates the DNA damage response. J Cell Biol. 2013-06-10 [PMID: 23751493]

van Cuijk L, van Belle GJ, Turkyilmaz Y et al. SUMO and ubiquitin-dependent XPC exchange drives nucleotide excision repair. Nat Commun. 2015-07-07 [PMID: 26151477]

More publications at <http://www.novusbio.com/H00054778-M05>



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### **Products Related to H00054778-M05**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)

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### **Limitations**

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