

# Product Datasheet

## RelA/NFkB p65 Antibody (112A1021) - BSA Free NB100-56712

Unit Size: 0.1 mg

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

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**NB100-56712**

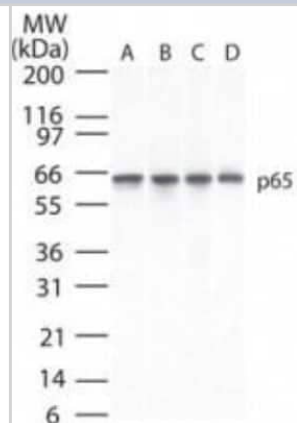
RelA/NFkB p65 Antibody (112A1021) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	112A1021
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	5970
<b>Gene Symbol</b>	RELA
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Predicted to react with Bovine, Gorilla, New World Monkey and Porcine.
<b>Immunogen</b>	This Nfkb p65 antibody was raised against a synthetic peptide corresponding to amino acids 526-539 of human NF-kB (p65) protein.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Flow Cytometry, Flow (Intracellular), Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 2 - 5 ug/mL. Use reported in scientific literature (Wittmann et al (2005)), Simple Western 1:25. Use reported by customer review, Flow Cytometry 0.25 - 0.5 ug/10 <sup>6</sup> cells, Immunohistochemistry 5 - 15 ug/mL, Immunoprecipitation reported by customer review, Immunohistochemistry-Paraffin 5 ug/mL. Use reported in scientific literature (Chang et al (2005)), Flow (Intracellular) reported in scientific literature (Wittmann et al (2005)), CyTOF-ready
<b>Application Notes</b>	In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in HeLa lysate 1.0 mg/mL, separated by Size, antibody dilution of 1:25, apparent MW was 69 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. This antibody is CyTOF ready.

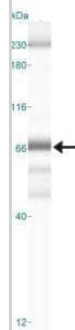


## Images

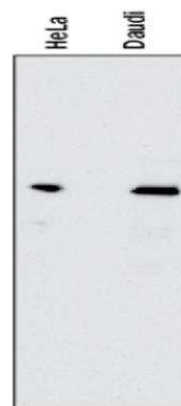
Western Blot: RelA/NFkB p65 Antibody (112A1021) [NB100-56712] - Analysis of P65 using p65 antibody at 2 ug/mL in 30 ug of A) Ramos, B) Daudi, C) HeLa and D) mouse NIH 3T3 cell lysate.



Simple Western: RelA/NFkB p65 Antibody (112A1021) [NB100-56712] - Lane view shows a specific band for NFkB p65 in 1.0 mg/mL of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



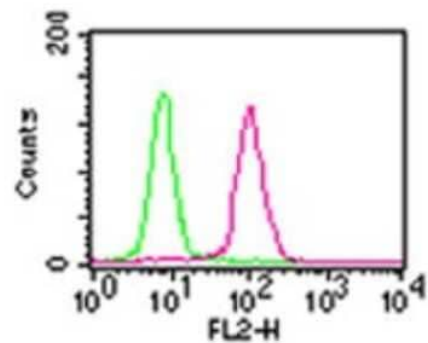
Western Blot: RelA/NFkB p65 Antibody (112A1021) [NB100-56712] - Lysates of HeLa human cervical epithelial carcinoma cell line and Daudi human Burkitt's lymphoma cell line. PVDF membrane was probed with 1 ug/mL mouse anti-RelA/NFkB p65 monoclonal (NB100-56712, Novus Biologicals), followed by 1:2000 dilution of the appropriate HRP-conjugated secondary antibody, donkey anti-mouse IgG (HAF018).



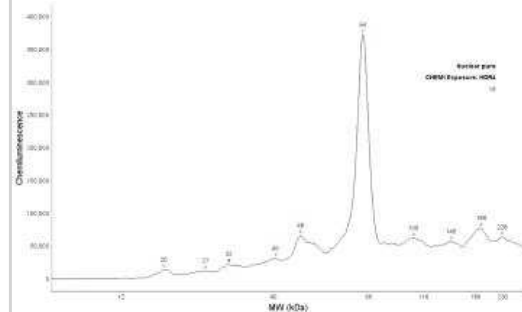
Immunohistochemistry-Paraffin: RelA/NFkB p65 Antibody (112A1021) [NB100-56712] - Ovarian cystadenocarcinoma probed with p65 antibody at 5 ug/mL. Human tissue TMA was used for this test. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



Flow Cytometry: RelA/NFkB p65 Antibody (112A1021) [NB100-56712] - Intracellular staining of 293 HEK cells using 0.5 ug of p65 antibody. Green histogram represents the isotype control (p65) antibody. This NFkB p65 antibody was used for this test with an anti-mouse IgG PE conjugated secondary antibody.



Simple Western: RelA/NFkB p65 Antibody (112A1021) [NB100-56712] - Detection of p65 by Simple Western (JESS) in chemiluminescence in nuclear extract of reconstructed human epidermis lysate (about 600 ug/mL protein concentration). Antibody at 1:20. Simple Western image submitted by a verified customer review.



## Publications

Prieux R, Ferrara F, Cervellati F et al. Inflammasome involvement in CS-induced damage in HaCaT keratinocytes In Vitro Cellular & Developmental Biology - Animal 2022-04-15 [PMID: 35428946] (Immunocytochemistry/Immunofluorescence)

Aamir K, Sethi G, Afrin MR et al. Arjunolic acid modulate pancreatic dysfunction by ameliorating pattern recognition receptor and canonical Wnt pathway activation in type 2 diabetic rats Life sciences 2023-08-15 [PMID: 37307966] (IHC, Simple Western, Rat)

Lin FL, Cheng YW, Chen LH et al. Retinal protection by fungal product theissenolactone B in a sodium iodate-induced AMD model through targeting retinal pigment epithelial matrix metalloproteinase-9 and microglia activity Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie 2022-12-17 [PMID: 36535199] (WB, Human)

Chen X, Lu D, Liu W et al. Therapeutic effect of Atractylenolide I on Aspergillus fumigatus keratitis by affecting MyD88/ NF- kappaB pathway and IL-1beta, IL-10 expression Cytokine 2022-12-13 [PMID: 36521238] (WB, Human)

Sikder K, Kesh SB, Das N et al. High antioxidative power of quercetin (aglycone flavonoid) and its glycone (rutin) avert high cholesterol diet induced hepato toxicity and inflammation in Swiss albino mice. Food Funct 2014-04-19 [PMID: 24745035]

Okuyan HM, Terzi MY, Karaboga I et al. In vivo protective effects of UCMA against cartilage degeneration in monosodium iodoacetate-induced osteoarthritis model J. Physiol. Pharmacol. 2020-07-08 [PMID: 32640182] (IHC-P)

### Details:

Citation using the Biotin format of this antibody.

Wang X, Cao Y, Liu Z et al. Alveolar Bone Density Reduction in Rats Caused by Unilateral Nasal Obstruction Balkan Med J 2019-10-28 [PMID: 31290639] (WB, Rat)

Zhang Yiping, He Yuanqiao, Yu Hongbo et al. Liquiritigenin Protects Rats from Carbon Tetrachloride Induced Hepatic Injury through PGC-1a Pathway. Evidence-Based Complementary and Alternative Medicine : ECam 2015-01-01 [PMID: 26199636] (WB, Rat)

Tumer TB, Yilmaz B, OzleYen A et al. GR24, a synthetic analog of Strigolactones, alleviates inflammation and promotes Nrf2 cytoprotective response: In vitro and in silico evidences. Comput Biol Chem. 2018-07-18 [PMID: 30048925] (WB, Mouse)

Chowdhury A, Arnold LL, Wang Z et al. Effect of polyhexamethylene biguanide on rat liver Toxicol. Lett. 2018-01-02 [PMID: 29305328] (Rat)

### Details:

This citation used the Biotin form of this antibody

Blanchard Z, Paul BT, Craft B, ElShamy WM. BRCA1-IRIS inactivation overcomes paclitaxel resistance in triple negative breast cancers Breast Cancer Res. 2015-01-13 [PMID: 25583261] (WB, Human)

Das U, Manna K, Sinha M et al. Role of ferulic Acid in the amelioration of ionizing radiation induced inflammation: a murine model. PLoS One 2014-05-24 [PMID: 24854039] (IHC-P, WB, Mouse)

More publications at <http://www.novusbio.com/NB100-56712>



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### **Products Related to NB100-56712**

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NBL1-13619	NFkB p105/p50 Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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