Datasheet for ABIN3044253

anti-NF-kB p65 antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	NF-kB p65 (NFkBP65)
Binding Specificity:	AA 143-158, Middle Region
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NF-kB p65 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Transcription factor p65(RELA) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human NF-kB p65(143-158aa VPIEEQRGDYDLNAVR), identical to the related rat and mouse sequences.
Sequence:	VPIEEQRGDY DLNAVR
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Transcription factor p65(RELA) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat. Gene Name: v-rel reticuloendotheliosis viral oncogene homolog A(avian) Protein Name: Transcription factor p65
Purification:	Immunogen affinity purified.

Target Details

Target:	NF-kB p65 (NFkBP65)
Alternative Name:	RELA (NFkBP65 Products)
Background:	RELA(V-REL AVIAN RETICULOENDOTHELIOSIS VIRAL ONCOGENE HOMOLOG A), also called NFKB3 or NFKB, p65 SUBUNIT. NFKB1 or NFKB2 is bound to REL, RELA, or RELB to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins, which inactivate NFKB by trapping it in the cytoplasm. The p65(RELA) heterodimer is the most abundant form of NFKB. And the RELA gene is located on 11q13.1. RELA is a nonhistone substrate of HDAC3 and that IKBA-dependent nuclear export of the HDAC3-deacetylated RELA replenishes the depleted cytoplasmic pool of latent NFKB-IKBA complexes for subsequent NFKB responses. RELA nucleocytoplasmic redistribution coincided with export of PPARG, and immunoprecipitation analysis indicated that PPARG-RELA association was dependent on the PPARG C-terminal ligand-binding domain. IKK-dependent phosphorylation of RELA on ser468 enhanced binding of GCN5 to RELA and RELA ubiquitination. Synonyms: Avian reticuloendotheliosis viral(v rel) oncogene homolog A antibody|MGC131774 antibody|NF kappa B p65delta3 antibody|NFKB 3 antibody|NFKB3 antibody|Nuclear Factor NF Kappa B p65 Subunit antibody|Nuclear factor NF-kappa-B p65 subunit antibody|Nuclear factor of kappa light polypeptide gene enhancer in B cells 3 antibody|Nuclear Factor Of Kappa Light Polypeptide Gene Enhancer In B Cells antibody|Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 antibody|OTTHUMP00000233473 antibody|OTTHUMP00000233474 antibody|OTTHUMP00000233475 antibody|OTTHUMP00000233476 antibody|OTTHUMP00000233900 antibody|p65 antibody|p65 NF kappaB antibody|p65 NFkB antibody|RELA antibody|TF65_HUMAN antibody|Transcription Factor p65 antibody|v rel avian reticuloendotheliosis viral oncogene homolog A(nuclear factor of kappa light polypeptide gene enhancer in B cells 3(p65)) antibody|V Rel Avian Reticuloendotheliosis Viral Oncogene Homolog A antibody|v rel reticuloendotheliosis viral oncogene homolog A(avian) antibody|V rel reticuloendotheliosis viral oncogene homolog A, nuclear factor of kappa light polypeptide gene

Target Details

	enhancer in B cells 3, p65 antibody|v-rel reticuloendotheliosis viral oncogene homolog A antibody
UniProt:	Q04206
Pathways:	NF-kappaB Signaling, RTK Signaling, TCR Signaling, TLR Signaling, Fc-epsilon Receptor Signaling Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Hepatitis C, Toll-Like Receptors Cascades, S100 Proteins

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.

Handling

Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

Publications

Product cited in:

Hu, Fan, Li, Guan, Qu, Pei, Liu: "Bortezomib protects against dextran sulfate sodium-induced ulcerative colitis in mice." in: **Molecular medicine reports**, Vol. 15, Issue 6, pp. 4093-4099, (2018) (PubMed).

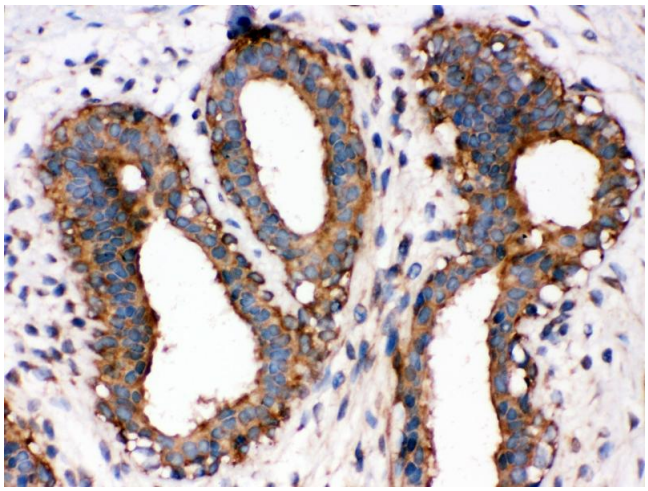
"Retraction: Naringin Alleviates Diabetic Kidney Disease through Inhibiting Oxidative Stress and Inflammatory Reaction." in: **PLoS ONE**, Vol. 13, Issue 2, pp. e0192465, (2018) (PubMed).

Zhou, Li, Shi, Mao, Liu, Chang, Gan, Kuang, Du: "Protective Effect of Klotho against Ischemic Brain Injury Is Associated with Inhibition of RIG-I/NF-κB Signaling." in: **Frontiers in pharmacology**, Vol. 8, pp. 950, (2018) (PubMed).

Liu, Zhang, Han, Wang, Liu, Zhang, Zhou, Xiang: "[Corrigendum] Inhibition of BTK protects lungs from trauma-hemorrhagic shock-induced injury in rats." in: **Molecular medicine reports**, Vol. 17, Issue 5, pp. 6926, (2018) (PubMed).

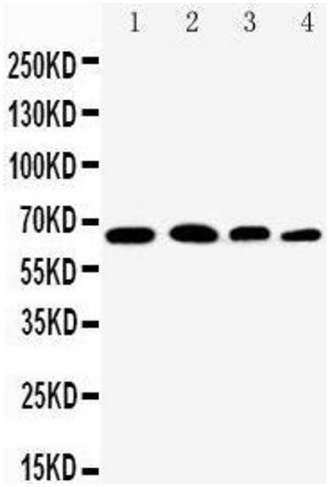
Wang, Liu, Wang, Wang, Tang, Jiang: "Src Promotes Metastasis of Human Non-Small Cell Lung Cancer Cells through Fn14-Mediated NF-κB Signaling." in: **Medical science monitor : international medical journal of experimental and clinical research**, Vol. 24, pp. 1282-1294, (2018) (PubMed).

There are more publications referencing this product on: Product page



Immunohistochemistry

Image 1. Anti-NF-kB p65 antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue



Western Blotting

Image 2. Anti-NF-kB p65 antibody, Western blotting Lane 1: Rat Testis Tissue Lysate Lane 2: HELA Cell Lysate Lane 3: A431 Cell Lysate Lane 4: JURKAT Cell Lysate