

NFκB p65 Polyclonal Antibody, eBioscience

Product Details	
Size	50 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS with 0.2% gelatin
Contains	0.1% sodium azide
Storage Conditions	4° C
RRID	AB_468255

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1000	5 Publications
Immunohistochemistry (IHC)	1:1000	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunoprecipitation (IP)	Assay-Dependent	-
Immunomicroscopy (IM)	-	1 Publication
Gel Shift (GS)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	3 Publications

Product Specific Information

Description: The polyclonal antibody reacts with mouse, rat, and human NFκB p65; the antibody was raised against a peptide mapping to the carboxy terminus of human NFκB p65. Members of the rel/NFκB family of transcription factors are involved in the regulation of cellular responses, such as growth, development, and the inflammatory response. They share a structural motif known as the rel homology region (RHR), the C-terminal one third of which mediates protein dimerization (2, 6, 8). Complexes of p50 (NF-κB1) or p52 (NF-κB2) are generated through the processing of p105 and p100 precursors, respectively. These are usually associated with members of the Rel family (p65, c-Rel, Rel B). The homo- and heterodimer formed through combinations of NFκB /Rel proteins bind distinct κB sites to regulate the transcription of different genes (7, 9). In resting cells, NFκB is retained in the cytoplasm bound to inhibitory proteins of the IκB family. Degradation of IκB proteins occurs with cell activation, via a variety of signals, including inflammatory cytokines and bacterial lipopolysaccharides (LPS) as well as oxidative and fluid mechanical stress. This results in nuclear translocation of NFκB and the transcriptional gene activation of proinflammatory genes (1, 9). It has been suggested that NFκB plays a role in the development of numerous pathological states. Activation of NFκB induces gene programs leading to transcription of factors that promote inflammation, such as leukocyte adhesion molecules, cytokines, and chemokines. It is also thought that there are some substances with possible anti-inflammatory effects that are also NFκB regulated. There is some evidence indicating NFκB as a key factor in the pathophysiology of cardiac ischemia-reperfusion injury as well as the development

of insulin dependent Diabetes Mellitus (4, 3).

Applications Reported: Purified anti-mo/hu/rat NFkB p65 poly has been reported for use in immunoprecipitation, immunoblotting (WB), and immunohistochemical staining.

Applications Tested: Purified anti-mo/hu/rat NFkB p65 poly has been tested by immunoblotting (WB) and immunohistochemistry. (1:1000 starting dilution). It is recommended that this antibody be titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Western Blot (5)

Scientific reports

Free immunoglobulin light chain (FLC) promotes murine colitis and colitis-associated colon carcinogenesis by activating the inflammasome.

"14-6731 was used in Western Blotting to investigate whether free Ig light chain is involved in colitis and colitis-associated colon carcinogenesis."

Authors: Ma J, Jiang D, Gong X, Shao W, Zhu Z, Xu W, Qiu X

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2017

Food & nutrition research

Inhibitory effects of quail egg on mast cells degranulation by suppressing PAR2-mediated MAPK and NF-κB activation.

"14-6731 was used in Western Blotting to investigate the suppressive role of quail egg in mast cell degranulation and cytokine production of the effect phase response."

Authors: Lianto P, Ogutu FO, Zhang Y, He F, Che H

Species
Human

Dilution
1:1000

Year
2020

[View more WB references on thermofisher.com](#)

Immunohistochemistry (3)

Japanese journal of clinical oncology

NF-kappaB activation through the alternative pathway correlates with chemoresistance and poor survival in extranodal NK/T-cell lymphoma, nasal type.

"14-6731 was used in Immunohistochemistry to investigate how NF-kappaB activation through the alternative pathway is frequently observed in NK/T-cell lymphoma and associated with chemoresistance and poor survival."

Authors: Liu X, Wang B, Ma X, Guo Y

Species
Human

Dilution
1:100

Year
2009

BMC infectious diseases

Anti-hepatitis B virus (HBV) response of imiquimod based toll like receptor 7 ligand in hbv-positive human hepatocellular carcinoma cell line.

"Published figure using NFκB p65 polyclonal antibody (Product # 14-6731-81) in Immunofluorescence"

Authors: Das D, Sengupta I, Sarkar N, Pal A, Saha D, Bandopadhyay M, Das C, Narayan J, Singh SP, Chakrabarti S, Chakravarty R

Species
Not Applicable

Dilution
Not Cited

Year
2017

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More applications with references on thermofisher.com

IHC (P) (1) IM (1) GS (1) ICC/IF (3)

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