

Phospho-NFkB p65 (Ser529) Monoclonal Antibody (MCFA30), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	MCFA30
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_2573046

Applications	Tested Dilution	Publications
Western Blot (WB)	5 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	10 µg/mL	-
ELISA (ELISA)	Assay-Dependent	-
In vitro Assay (IV)	-	1 Publication

Product Specific Information

Description: The MCFA30 monoclonal antibody recognizes human NF kappa B (NFkB) p65 subunit when serine 529 is phosphorylated. NFkB, also known as nuclear factor kappa-light chain enhancer of activated B cells, is a ubiquitous transcription factor that regulates the transcription of many genes involved in cell proliferation, apoptosis, development, immunity and cancer. Functional NFkB is a homo- or hetero-dimer composed of 5 members of the NFkB family: p65 (RelA), c-Rel, RelB, p50 (NFkB1, p105 precursor protein), and p52 (NFkB2, p100 precursor protein). The activity of the complex is negatively regulated by binding to Ikb inhibitors that sequester NFkB into the cytoplasm, inhibiting its transcriptional activity. NFkB-activating agents like tumor necrosis factor (TNF) alpha, interleukin-1 beta, lipopolysaccharide, camptothecin, and phorbol ester (PMA) induce the phosphorylation and degradation of Ikb, leading to the translocation of NFkB to the nucleus where it binds to kB motifs and regulates gene expression. The activity of p65-containing NFkB complexes is positively regulated by phosphorylation of the p65 subunit at serine 529.

Applications Reported: This MCFA30 antibody has been reported for use in western blotting, immunohistochemical staining of formalin-fixed paraffin embedded tissue sections, microscopy, and ELISA.

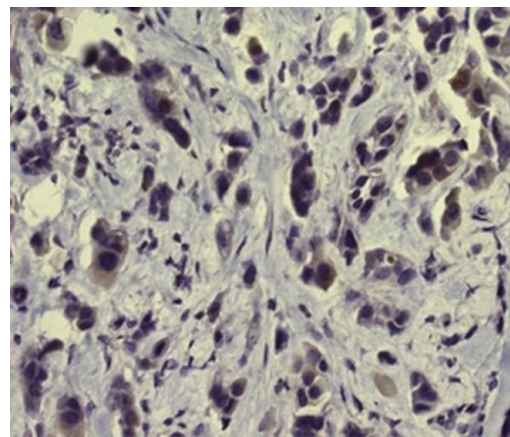
Applications Tested: This MCFA30 antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded human tissue sections using either low or high pH antigen retrieval at less than or equal to 10 µg/mL. This MCFA30 antibody has also been tested by western blot analysis of human cell lysates at less than or equal to 5 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

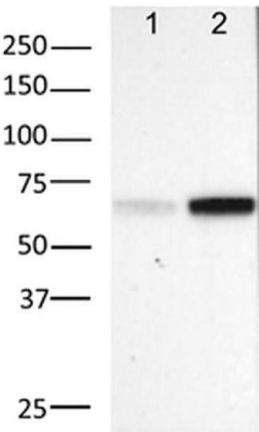
Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Phospho-NFκB p65 (Ser529) Monoclonal Antibody (MCFA30), eBioscience™



Phospho-NFκB p65 (Ser529) Antibody (14-9864-82) in IHC (P)
Immunohistochemistry of formalin-fixed paraffin embedded human breast cancer tissue stained with 10 µg/mL of Anti-Human Phospho-NF kappa B p65 (S529) Purified followed by Anti-Mouse IgG Biotin, Streptavidin HRP, and visualized with DAB. Nuclei are counterstained with hematoxylin.



Phospho-NFκB p65 (Ser529) Antibody (14-9864-82) in WB
Lysates prepared from HeLa cells that were untreated (lane 1) or treated with 10 uM TNF alpha for 10 min (lane 2) were run under reducing conditions and probed with 5 µg/mL of Anti-Human Phospho-NF kappa B p65 (S529) Purified, followed by Anti-Mouse IgG HRP.

Western Blot (1)

Cell death & disease	Year 2018
Neutrophils induce macrophage anti-inflammatory reprogramming by suppressing NF-B activation.	Species Human
"Published figure using Phospho-NFkB p65 (Ser529) monoclonal antibody (Product # 14-9864-82) in Western Blot"	
Authors: Marwick JA,Mills R,Kay O,Michail K,Stephen J,Rossi AG,Dransfield I,Hirani N	

In vitro Assay (1)

PLoS pathogens	Year 2015
GITR intrinsically sustains early type 1 and late follicular helper CD4 T cell accumulation to control a chronic viral infection.	Species Human
"14-9864 was used in in vitro experiments to investigate the role of GITR during chronic viral infection using GITR-deficient mice infected with lymphocytic choriomeningitis virus clone 13."	
Authors: Clouthier DL,Zhou AC,Wortzman ME,Luft O,Levy GA,Watts TH	

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