



Phospho-RELA (Ser529) Antibody

Product Code	CSB-PA794822
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q04206
Immunogen	Peptide sequence around phosphorylation site of serine 529 (L-L-S(p)-G-D) derived from Human NFκB-p65.
Raised In	Rabbit
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of NFκB-p65 only when phosphorylated at serine 529.
Tested Applications	ELISA,WB,IHC,IF;WB:1:500-1:1000,IHC:1:50-1:100,IF:1:100-1:200

Relevance

NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processes such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFκB1/p105, NFκB1/p50, REL and NFκB2/p52 and the heterodimeric p65-p50 complex appears to be most abundant one. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. NF-kappa-B heterodimeric p65-p50 and p65-c-Rel complexes are transcriptional activators. The NF-kappa-B p65-p65 complex appears to be involved in invasion-mediated activation of IL-8 expression. The inhibitory effect of I-kappa-B upon NF-kappa-B in the cytoplasm is exerted primarily through the interaction with p65. p65 shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-kappa-B complex

Xu C, et al (2005) *Oncogene*:24(28): 4486-95.

McNulty SE, et al. (2004) *Pigment Cell Res* Apr; 17(2): 173-80.

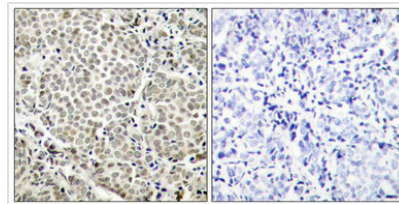
Madrid LV, et al. (2001) *J Biol Chem*: 276(22): 18934-40.

Wang D, et al. (2000) *J Biol Chem* : 275(42): 32592-7.

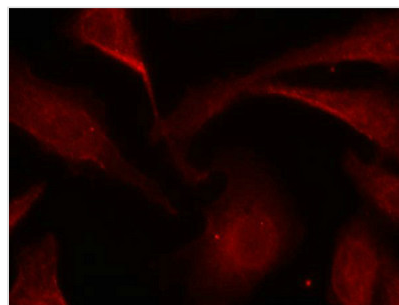
Form	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
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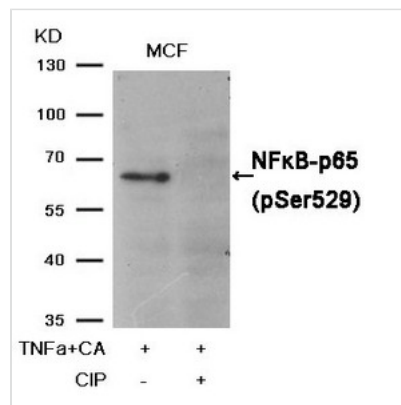
Purification Method	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography
Clonality	Polyclonal
Alias	NFKB3; RELA; TF65; Transcription factor p65; p65
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	RELA

Image


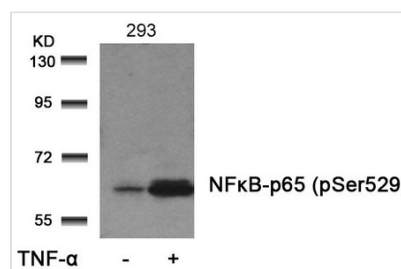
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFkB-p65(Phospho-Ser529) Antibody(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using NFkB-p65(Phospho-Ser529) Antibody.



Western blot analysis of extracts from MCF cells, treated with TNFa+CA or calf intestinal phosphatase (CIP), using NFkB-p65 (Phospho-Ser529) Antibody.



Western blot analysis of extracts from 293 cells untreated or treated with TNF- α using NFkB-p65 (Phospho-Ser529) Antibody.



Product Modify

Phospho-Ser529