NFkB-p65(Phospho-Ser529) Antibody

Catalog No: #11217

Package Size: #11217-1 50ul #11217-2 100ul

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	NFkB-p65(Phospho-Ser529) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of NFkB-p65 only when phosphorylated at serine 529.
Immunogen Type	Peptide-KLH
Immunogen Description	Synthesized phospho-peptide around the phosphorylation site of human NFκB-p65 (phospho Ser529)
Conjugates	Unconjugated
Target Name	NFkB-p65
Modification	Phospho
Other Names	NFKB3; RELA; TF65; Transcription factor p65; p65
Accession No.	Swiss-Prot: Q04206NCBI Protein: NP_001138610.1
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

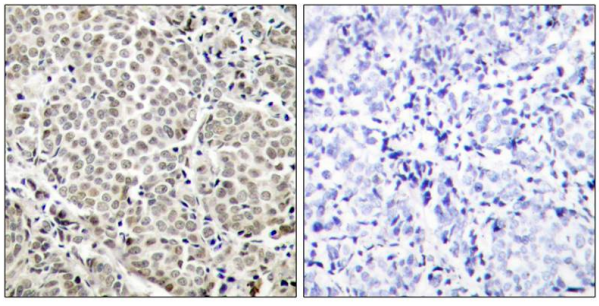
Application Details

IF 1:50-200;

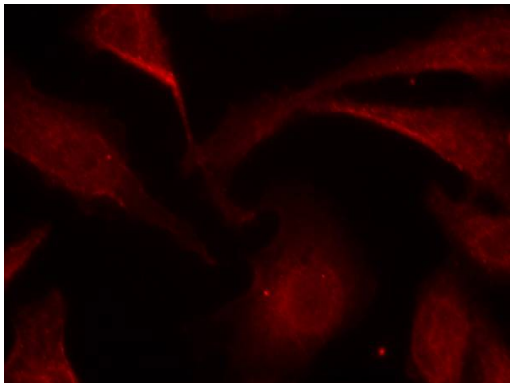
WB 1:500-1:2000;

IHC 1:100-1:300

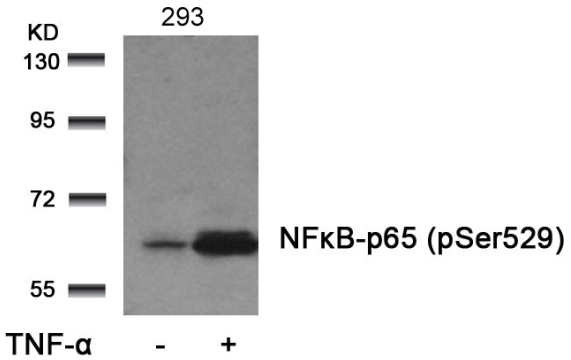
Images



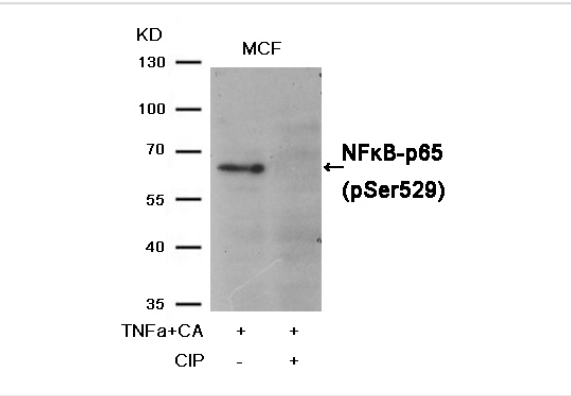
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFkB-p65(Phospho-Ser529) Antibody #11217(left) or the same antibody preincubated with blocking peptide(right).



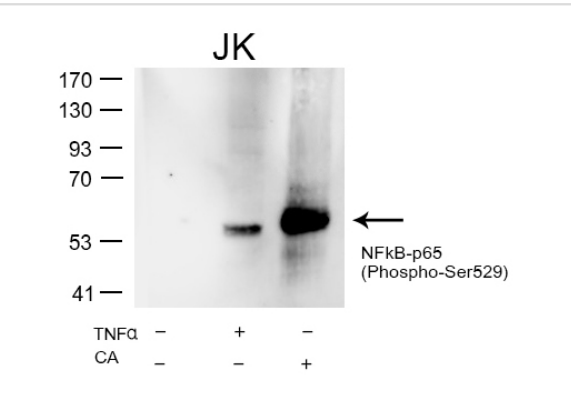
Immunofluorescence staining of methanol-fixed Hela cells using NFkB-p65(Phospho-Ser529) Antibody #11217.



Western blot analysis of extracts from 293 cells untreatedor treated with TNF-α using NFκB-p65 (Phospho-Ser529)Antibody #11217.



Western blot analysis of extracts from MCF cells, treated with TNFa+CA or calf intestinal phosphatase (CIP), using NFκB-p65 (Phospho-Ser529) Antibody #11217.



Western blot analysis of extracts from Jurkat cells untreated or treated with TNF alpha or Calyculin A, using NFκB-p65 (Phospho-Ser529) Antibody #11217.

Background

NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processed 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, NFKB1/p105, NFKB1/p50, REL and NFKB2/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 invasin-mediated activation of IL-8 expression. The inhibitory effect of I-kappa-B upon NF-kappa-B 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.

Published Papers

el at., Effects of resveratrol on inflammation and oxidative stress induced by the uremic toxin indoxyl sulfate in Murine macrophage-like RAW 264.7In BiochimieOn2023 OctbyLivia Alvarenga , Juliana F Saldanha et al..PMID:37142118, , (2023)

PMID:37142118

Note: This product is for in vitro research use only and is not intended for use in humans or animals.