Data Sheet (Cat.No.TMAC-02836)

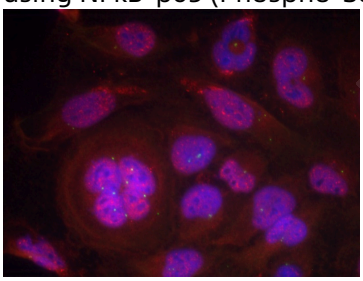
Anti-Phospho-NF-kB p65 (Ser276) Polyclonal Antibody 2

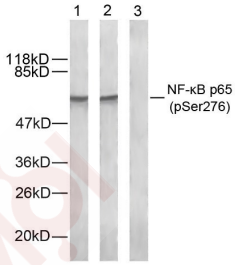
Product Details

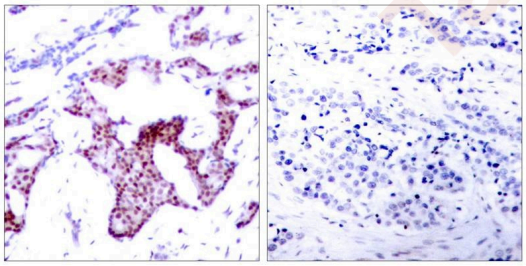
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Actual: 65 kDa.
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.

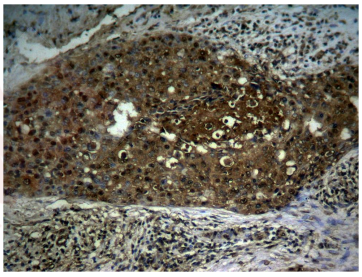
Applications

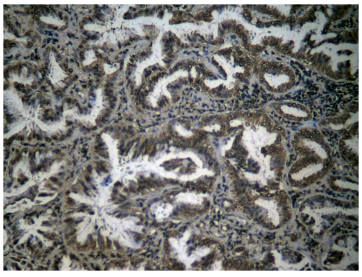
Verified Activity:	1. Immunofluorescence staining of methanol-fixed Hela cells using NFκB-p65 (Phospho-Ser276) Antibody TMAC-02836. 2. Western blot analysis of extract from Hela cells using NF-κB p65 (phospho-Ser276) antibody TMAC-02836. Lane 1: The antibody is not preincubated with blocking peptides. Lane 2: The antibody is preincubated with non-phospho peptide blocking peptides. Lane 3: The antibody is preincubated with phospho peptide blocking peptides. 3. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFκB-p65 (Phospho-Ser276) Antibody TMAC-02836 (left) or the same antibody preincubated with blocking peptide (right). 4. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NFκB-p65 (Phospho-Ser276) antibody TMAC-02836. 5. Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using NFκB-p65 (Phospho-Ser276) antibody TMAC-02836. 6. Immunofluorescence staining of methanol-fixed MEF cells untreated or treated with TNF using NFκB-p65 (Phospho-Ser276) Antibody TMAC-02836.

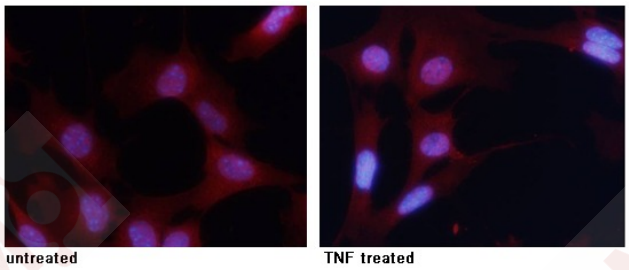












Application:	IF,IHC,WB
Recommended	WB: 1:500-1000; IF: 1:100-200; IHC: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Peptide sequence around phosphorylation site of serine 276(R-P-S(p)-D-R) derived from Human NFκB-p65
Antigen Species:	Human
Uniprot ID:	Q04206
Synonyms:	NF-kB p65 (p-Ser276);NF-kB p65 (p-S276);p-NF-kB p65 (Ser276);v-rel avian reticuloendotheliosis viral oncogene homolog A;NFKB3;p-NF-kB p65 (S276);p65

Research Background

NF-kappa-B is a pleiotropic transcription factor present in almost all cell types and is the endpoint of a series of signal transduction events that are initiated by a vast array of stimuli related to 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, 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. Associates with chromatin at the NF-kappa-B promoter region via association with DDX1.

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