

## Product datasheet for **AP02562PU-S**

### **NFKB1 Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	Western Blot: 1:500~1:1000. Immunohistochemistry: 1:50~1:100.
<b>Reactivity:</b>	Human
<b>Host:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Peptide sequence around amino acids 905~909 (P-L-SP-P-A) derived from Human NF- $\kappa$ B p105/p50
<b>Specificity:</b>	NF- $\kappa$ B p105/p50 antibody detects endogenous levels of total NF- $\kappa$ B p105/p50 protein.
<b>Formulation:</b>	PBS(without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4 containing 150mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid purified IgG fraction
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity Chromatography using epitope-specific immunogen.
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	nuclear factor kappa B subunit 1
<b>Database Link:</b>	<a href="#">Entrez Gene 4790 Human P19838</a>



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**Background:**

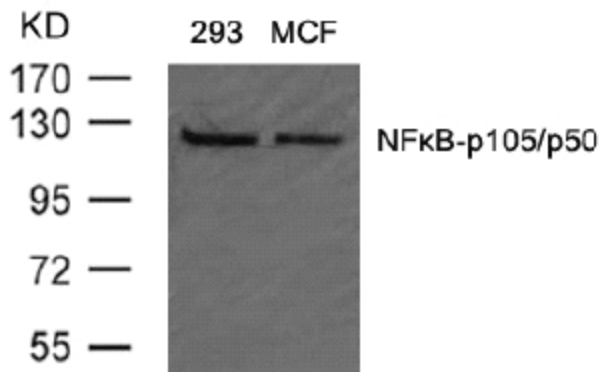
NFκB is a transcription regulator that is activated by various intra and extra cellular stimuli such as cytokines, oxidant free radicals, ultraviolet irradiation, and bacterial or viral products. NFκB is a family of transcription factors that consists of homo and heterodimers of NFκB1/p50 and RelA/p65 subunits, and controls a variety of cellular events including development and immune responses. All members share a conserved amino terminus domain that includes dimerization, nuclear localization, and DNA binding regions, and a carboxy terminal transactivation domain. Serines 529 and 536 in the transactivation domain of RelA/p65 are phosphorylated in response to several stimuli including phorbol ester, IL1 alpha and TNF alpha as mediated by IκB kinase and p38 MAPK. Serine 529 is located in a negatively charged region (amino acids 422-540) that is phosphorylated in response to phorbol myristate acetate plus calcium ionophore activation. Phosphorylation of serines 529 and 536 is critical for RelA/p65 transcriptional activity. Activated NFκB translocates into the nucleus and stimulates the expression of genes involved in a wide variety of biological functions. Inappropriate activation of NFκB has been associated with a number of inflammatory diseases while persistent inhibition of NFκB leads to inappropriate immune cell development or delayed cell growth.

**Synonyms:**

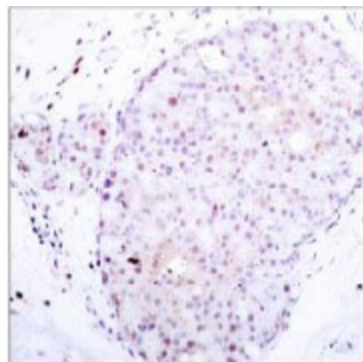
NFKB1, KBF1, EBP-1, EBP1, NF-kappa-B p50

**Note:**

Molecular Weight: 120 kDa

**Product images:**


Western blot analysis of extracts from 293 and MCF cells using NF-κB p105/p50 antibody.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma, using NF-κB p105/p50 antibody.