**[KO Validated] NFKB1 Rabbit pAb**

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<th>Catalog No.</th>
<th>A6667</th>
<th>Category</th>
<th>Polyclonal Antibodies</th>
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<td>Applications</td>
<td>WB, IHC, IF</td>
<td>Observed MW</td>
<td>120kDa</td>
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<td>Cross-reactivity</td>
<td>Human, Mouse</td>
<td>Calculated MW</td>
<td>85kDa/105kDa</td>
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**Immunogen Information**

- **Immunogen**: Recombinant fusion protein containing a sequence corresponding to amino acids 740-964 of human NFKB1 (NP_001158884.1).
- **Gene ID**: 4790
- **Swiss prot**: P19838
- **Synonyms**: NFKB1; CVID12; EBP-1; KBF1; NF-kB1; NF-kappa-B; NF-kappaB; p105; p50

**Product information**

- **Source**: Rabbit
- **Isotype**: IgG
- **Purification method**: Affinity purification
- **Storage**: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

**Background**

This gene encodes a 105 kD protein which can undergo cotranslational processing by the 26S proteasome to produce a 50 kD protein. The 105 kD protein is a Rel protein-specific transcription inhibitor and the 50 kD protein is a DNA binding subunit of the NF-kappa-B (NFKB) protein complex. NFKB 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. Activated NFKB translocates into the nucleus and stimulates the expression of genes involved in a wide variety of biological functions. Inappropriate activation of NFKB has been associated with a number of inflammatory diseases while persistent inhibition of NFKB leads to inappropriate immune cell development or delayed cell growth. Alternative splicing results in multiple transcript variants encoding different isoforms, at least one of which is proteolytically processed.

**Recommended Dilutions**

- **WB**: 1:500 - 1:2000
- **IHC**: 1:50 - 1:200
- **IF**: 1:50 - 1:100

**Western blot analysis of extracts of various cell lines, using NFKB1 antibody (A6667) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.**

**Western blot analysis of extracts from normal (control) and NFKB1 knockout (KO) HeLa cells, using NFKB1 antibody (A6667) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.**

- **Immunohistochemistry of paraffin-embedded mouse spleen using NFKB1 antibody (A6667) at dilution of 1:200 (40x lens).**
- **Immunofluorescence analysis of A549 cells using NFKB1 antibody (A6667).**