## Phospho-NF kappaB p105/p50 (Ser337) Antibody

<table>
<thead>
<tr>
<th>Cat.#: AF3219</th>
<th>Conc.: 1mg/ml</th>
<th>Mol.Wt.: 105,50kDa</th>
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<tbody>
<tr>
<td>Size: 100ul,200ul</td>
<td>Source: Rabbit</td>
<td>Clonality: Polyclonal</td>
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### Application:
- WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500,
- ELISA(peptide) 1:20000-1:40000

### Reactivity:
Human,Mouse,Rat

### Purification:
The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.

### Specificity:
Phospho-NF kappaB p105/p50 (Ser337) Antibody detects endogenous levels of NF kappaB p105/p50 only when phosphorylated at Serine 337.

### Immunogen:
A synthesized peptide derived from human NF- kappaB p105/p50 around the phosphorylation site of Ser337.

### Uniprot:
P19838

### Description:
NFkB-p105 a transcription factor of the nuclear factor-kappaB (NFkB) group. Undergoes 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 NFkB. 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.

### Similarity:
The C-terminus of p105 might be involved in cytoplasmic retention, inhibition of DNA-binding, and transcription activation.Glycine-rich region (GRR) appears to be a critical element in the generation of p50.

### Storage Condition and Buffer:
Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.
Western blot analysis of extracts from mouse spleen/rat lung, using Phospho-NF kappaB p105/p50 (Ser337) Antibody. -/+ means absence or presence of N peptide(non-phospho peptide) and P peptide(phospho peptide)

AF3219 at 1/100 staining human breast carcinoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.

AF3219 staining HepG2 cells(4h of LPS treatment) by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AF3219 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.