



## NFκB p105/p50 (Phospho-Ser927) Antibody

#11312

**Catalog Number:** 11312-1, 11312-2

**Amount:** 50µg/50µl, 100µg/100µl

**Swiss-Prot No. :** P19838

**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Storage/Stability:** Store at -20°C/1 year

**Immunogen:** The antiserum was produced against synthesized phosphopeptide derived from human NFκB p105/p50 around the phosphorylation site of serine 927 (C-D-S<sub>P</sub>-G-V ).

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site

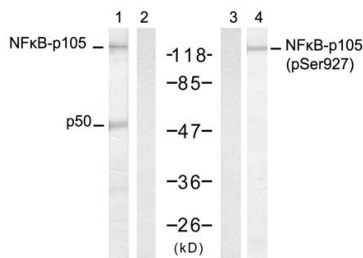
**Specificity/Sensitivity:** NFκB-p105/p50 (Phospho-Se927) antibody detects endogenous levels of NFκB-p105/p50 only when phosphorylated at serine 927.

**Reactivity:** Human, Mouse, Rat

### Applications:

Predicted MW: 120kd

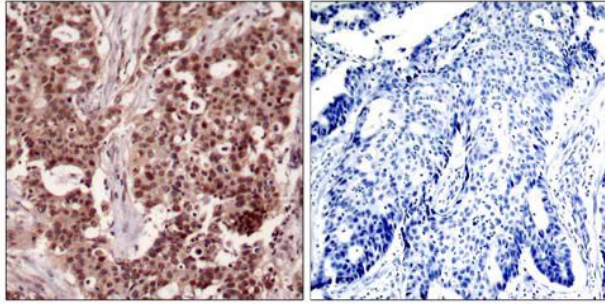
WB: 1:500~1:1000 IHC: 1:50-1:100 IF:1:100~1:200



TNF-α + Calyculin A - - - +

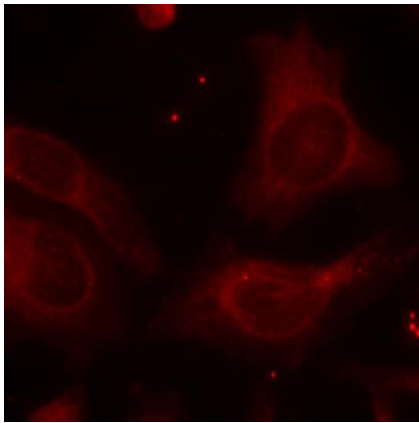
Peptide - + - -

Western blot analysis extract from HT-29 cells treated with TNF-α (20ng/ml, 15min) and Calyculin A (50nM, 15min), using NF-κB p100/p52 (Ab-872) antibody (#21297, Lane 1 and 2) and NFκB-p105/p50 (Phospho-Ser927) antibody (#11312, Lane 3 and 4).



P-Peptide - +

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using NFκB-p105/p50 (Phospho-Ser927) antibody (#11312).



Immunofluorescence staining of methanol-fixed HeLa cells using

NFκB-p105/p50(Phospho-Ser927) antibody (#11312, Red).

**Background** :NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in 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, NFκB1/p105, NFκB1/p50, REL and NFκB2/p52. 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.

### References:

- Hou S, et al. (2003) J Biol Chem. 278(46): 45994-45998.
- Baeuerle P A, et al. (1994) Annu Rev Immunol. 12:141-179.
- Baeuerle P A, et al. (1996) Cell 87:13-20.
- Haskill S, et al. (1991) Cell 65:1281-1289.