



## NFkB p105/p50 (Ab-337) Antibody

#21017

**Catalog Number:** 21017-1, 21017-2

**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 non-phosphopeptide derived from human NFkB p105/p50 around the phosphorylation site of serine 337 (R-K-S<sup>P</sup>-D-L).

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

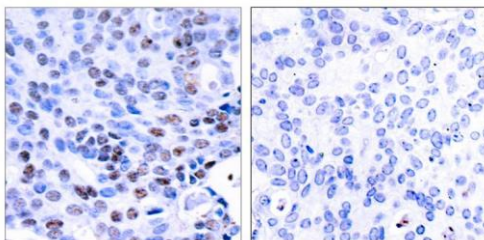
**Specificity/Sensitivity:** NFkB p105/p50 (Ab-337) antibody detects endogenous levels of total NFkB p105/p50 protein

**Reactivity:** Human, Mouse, Rat

### Applications:

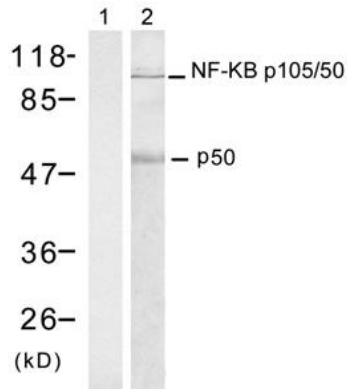
Predicted MW: 50 120kd

WB: 1:500~1:1000 IHC: 1:50~1:100



Peptide - +

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using NF- $\kappa$ B p105/p50 (Ab-337) antibody (#21017).



TNF- $\alpha$ + Calyculin A + +

Peptide + -

Western blot analysis of extract from HT-29 cells using NF- $\kappa$ B p105/p50 (Ab-337) antibody (#21017, Lane 1 and 2)

## 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, NF- $\kappa$ B1/p105, NF- $\kappa$ B1/p50, REL and NF- $\kappa$ B2/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.