



Rabbit anti NF- κ B p105/p50(pS337) Polyclonal Antibody

Alternative Name(s): nuclear factor kappa B subunit p105/50; NF κ B

Order Information

- **Description:** NF- κ B p105/p50(pS337)
- **Catalogue:** 500-11884
- **Lot:** See label
- **Size:** 100 μ g/200 μ l
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB, IP
- **Reactivity:** Hu, Ms

ANTIGEN PREPARATION

A synthetic peptide corresponding to the epitope containing a phosphorylation site 337 human NF κ B/p105 protein. This sequence is identical within human and mouse.

BACKGROUND

NF κ B is a heterodimer that consists of a 50 kDa DNA binding subunit (p50/NF κ B1) and a 65 kDa transactivation subunit (p65/RelA). Both of these subunits exhibit sequence homology to the proto-oncogene c-Rel. The p50 has an isoform called p49/p52, and both proteins are derived from the amino-terminal of precursor protein p105 and p100. The p50/p65 heterodimer remains in the cytosol in an inactive form as a complex with its inhibitor, I κ B. Upon stimulation of cells by a wide variety of stimuli such as lipopolysaccharide (LPS), pro-inflammatory cytokines (IL-1 & TNF, etc.), and viral infection, I κ B is phosphorylated and degraded by proteasome. The active NF κ B heterodimer is translocated into the nucleus and induces gene expression. The inhibition of p53 activity is dependent upon phosphorylation of p65 (RelA) at S536 by the upstream kinase IKK beta.

PURIFICATION

The Rabbit IgG is purified by site-modified Epitope Affinity Purification.

FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes NF κ B p105/p50 with the phosphorylation site Ser337. It does not cross-react with non-phosphospecific peptide.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20 $^{\circ}$ C to -70 $^{\circ}$ C. The antibodies can be stored at 2 $^{\circ}$ C-8 $^{\circ}$ C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 μ g/ml
- ELISA: 0.01-0.1 μ g/ml
- Immunoprecipitation: 2-5 μ g/ml
- IHC: 2-10 μ g/ml
- Flow cytometry: Not tested
- Molecular Weight: 105&50
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS

MW (kDa)

1

250-
150-
100-

75-

50-

37-



Western Blot: The whole lysate derived from Hela (20 ug/lane) immunoblotted by Rabbit anti – NFkB/p105/p50(pS337) (Cat# 500-11884) at 1:500. Observed a major immunoreactive band at molecular weight 105kda & 50 kDa.

REFERENCES

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