



## Rabbit anti NF- $\kappa$ B p105/p50(pS893) Polyclonal Antibody

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

### Order Information

- **Description:** NF- $\kappa$ B p105/p50(pS893)
- **Catalogue:** 500-11894
- **Lot:** See label
- **Size:** 100ug/200ul
- **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 Ser 893 of human NF $\kappa$ B/p105/p50 protein. This sequence is identical within human and mouse.

### **BACKGROUND**

NF $\kappa$ B is a heterodimer that consists of a 50 kDa DNA binding subunit (p50/NF $\kappa$ 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 $\kappa$ 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 $\kappa$ B is phosphorylated and degraded by proteasome. The active NF $\kappa$ 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 $\kappa$ B p105/p50 with the phosphorylation site Ser893. It does not cross-react with non-phosphospecific peptide.

### **STORAGE**

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

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1  $\mu\text{g/ml}$
- ELISA: 0.01-0.1  $\mu\text{g/ml}$
- Immunoprecipitation: 2-5  $\mu\text{g/ml}$
- IHC: 2-10  $\mu\text{g/ml}$
- 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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1 408-573-1898 (Tel). 1 408-573-1858 (Fax). [www.abbomax.com](http://www.abbomax.com) [info@abbomax.com](mailto:info@abbomax.com)

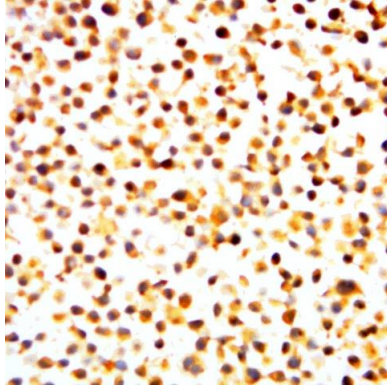


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## DATA ATTACHMENTS



Immunohistochemistry: The whole cell pallet HeLa (FFPE) stained with Rabbit anti-NFkB/p105/p50(pS893) (Cat# 500-11894) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue section in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

## REFERENCES

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