

# Phospho-NFkB p65 (Ser468) (B9) rabbit mAb

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## #2461

Store at: -20°C

**For Research Use Only. Not For Use In Diagnostic Procedures.**

Applications	Detection	Clonality	Isotype
Flow Cytometry	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

**Format:** Unconjugated

**Cross Reactivity:** Predicted to work with mouse, rat and other homologues.

**Formulation:** 1X PBS, 0.09% NaN<sub>3</sub>, 0.2% BSA

**Preparation:** Protein A+G

**Reactivity:** Human

### Recommended

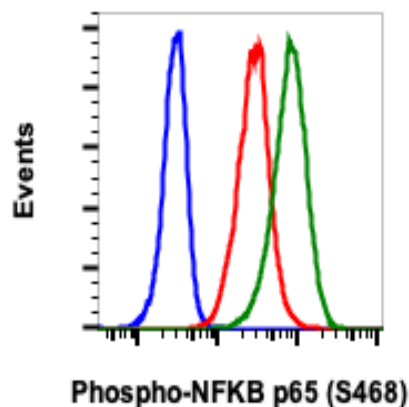
**Usage:** For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

**Immunogen:** A synthetic phospho-peptide corresponding to residues surrounding Ser536 of human phospho-NFkB p65

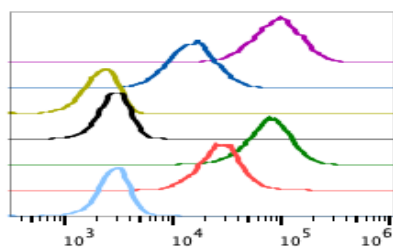
**Description:** The nuclear factor  $\kappa$ B (NF $\kappa$ B)/Rel family of transcription factors play a pivotal role in inflammatory and immune responses (1,2). NF-kappa-B is present in almost all cell types and is involved in many biological processes including immunity, inflammation, cell growth and differentiation, apoptosis, and tumorigenesis. NFkB is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFkB1/p105, NFkB1/p50, REL and NFkB2/p52. The dimers bind at  $\kappa$ B sites in the target gene DNA. Individual dimers have distinct preferences for different  $\kappa$ B sites and can act as either transcriptional activators or repressors. NFkB Ser536 phosphorylation stimulates Lys310 acetylation and interaction of phospho NFkB with CBP. Acetylated/phospho NFkB induces enhanced transcriptional activity.

### References:

1. Baeuerle PA, and Henkel T, 1994, Annu Rev Immunol, 12:141-179.
2. Baeuerle PA, and Baltimore D, 1996, Cell, 87:13-20.



Flow cytometric analysis of A431 cells unstained and untreated with as negative control (blue) or untreated (red) or treated with staurosporine (green) and stained using phospho-NFKB p65 (Ser468) antibody NFKBP65S468-B9 at 0.01 ug/mL Cat. #2461.



Peptide blocking flow cytometric analysis of A431cells secondary antibody only negative control (light blue) or untreated (red) or treated with staurosporine (green) or untreated and blocked with phospho-peptide (black) or treated and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or treated and blocked with non-phospho peptide (purple) using Phospho-NFKB p65 (Ser468) antibody NFKBP65S468-B9 at 0.01µg/mL. Cat. #2461.

\$WELLID	Treatment	Median : BL1-A
B9 0.01+NP	Stauro	90472
B9 0.01+NP	CTRL	14969
B9 0.01+PP	Stauro	2195
B9 0.01+PP	CTRL	2896
B9 0.01	Stauro	76767
B9 0.01	CTRL	27213
CELL ONLY	CTRL	2879