

# Phospho-NFkB p65 (Ser536) (B7) rabbit mAb PE conjugate

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## #2392

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

Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGk

**Format:** PE

**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

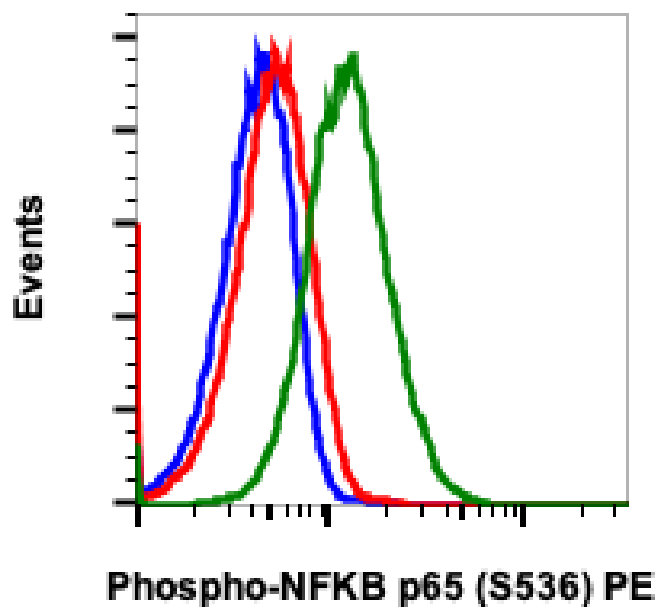
**Usage:** For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

**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, P.A. and Henkel, T. (1994) Annu. Rev. Immunol. 12:141-179.
2. Baeuerle, P.A. and Baltimore, D. (1996) Cell. 87:13-20.



Flow cytometric analysis of HeLa cells untreated and unstained as negative control (blue), untreated (red) or treated with TNF $\alpha$  plus CalA (green) and stained using phospho-NFκB p65 (Ser536) antibody NFKBP65S536-B7 PE Cat. #2392.