Phospho-NFkB p65 (Ser529) (H3) rabbit mAb

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Catalog: #2406

Store at: -20ºC

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, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse

Recommended Usage: 1µg/mL – 0.001µg/mL. 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 Ser529 of human phospho-NFKB p65

Description: The nuclear factor κB (NFκB)/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 κB sites in the target gene DNA. Individual dimers have distinct preferences for different κB 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.

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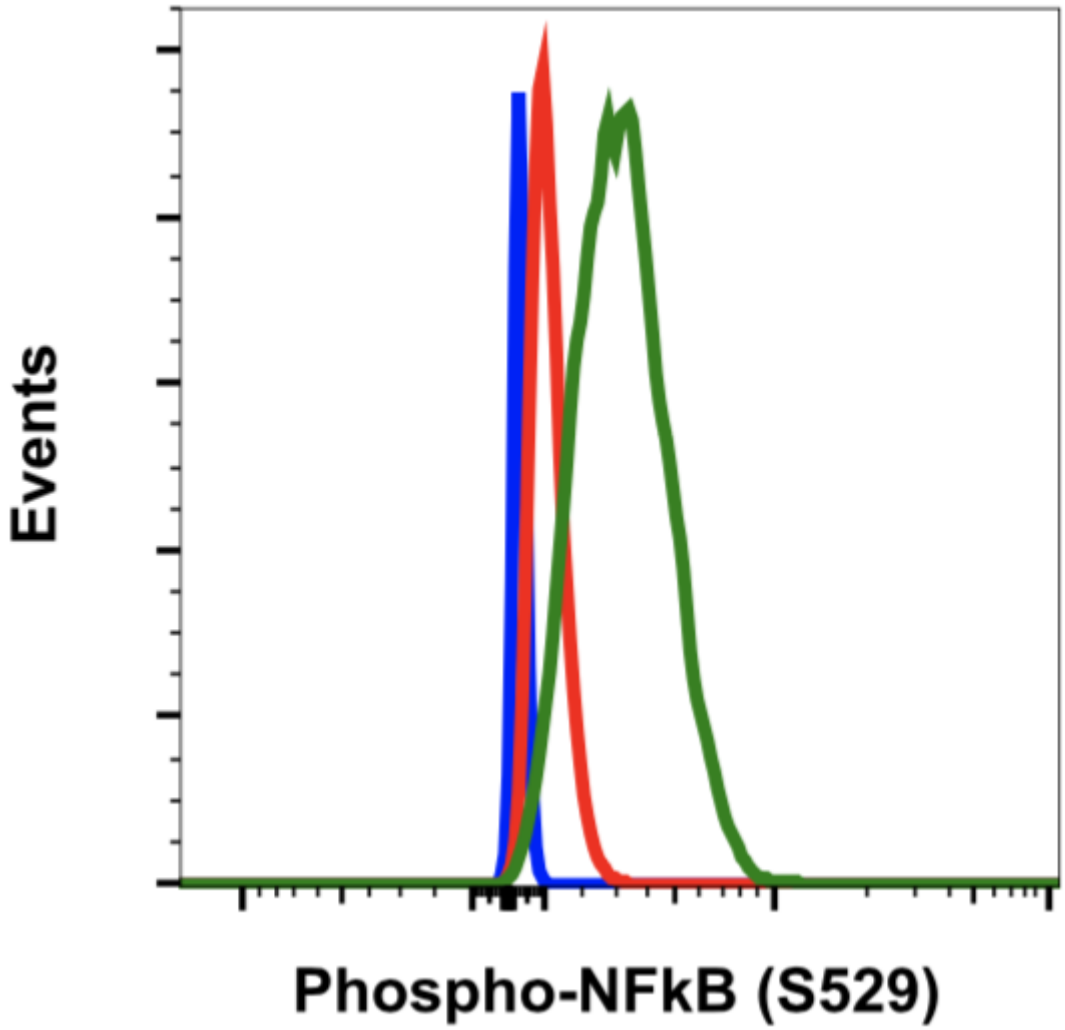

Flow cytometric analysis of HeLa cells secondary antibody only negative control (blue) or untreated (red) or treated with TNFα + calyculin A (green) using Phospho-NFkB p65 (Ser529) antibody NFkBp65S529-H3 at 0.01µg/mL. Cat. #2406.

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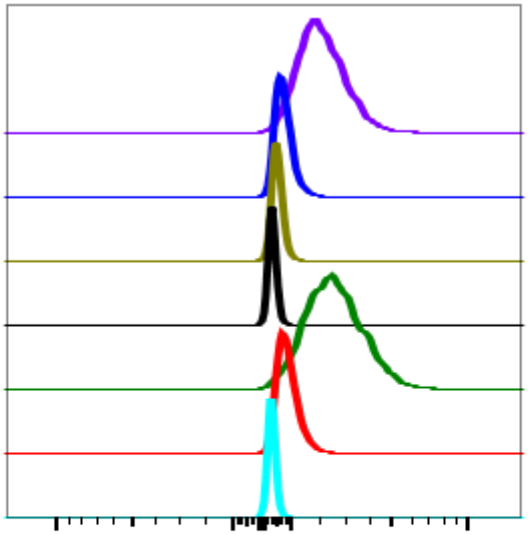
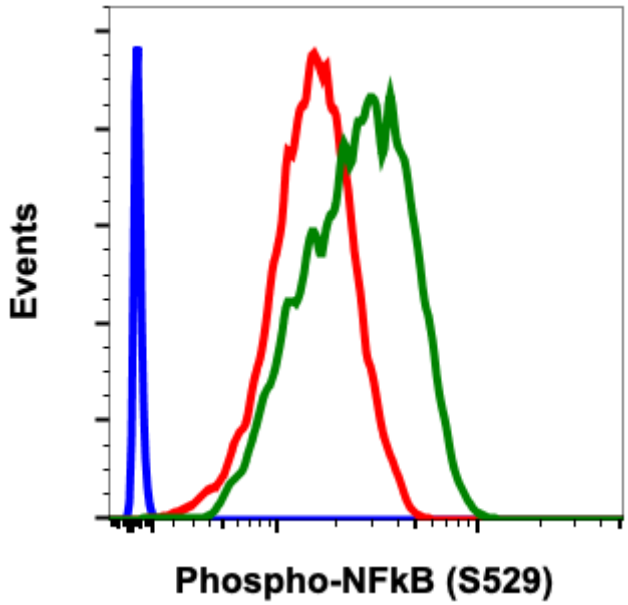


	IgG	Treatment	Peptide Block	Median : BL1-A
□	H3	IFNalL4Pv	Non-Phos.	1992
□	H3	Ctrl	Non-Phos.	674
□	H3	IFNalL4Pv	Phospho.	478
□	H3	Ctrl	Phospho.	311
□	H3	IFNalL4Pv	-	2478
□	H3	Ctrl	-	790
□	2' only	Ctrl	-	289

Peptide blocking flow cytometric analysis of HeLa cells secondary antibody only negative control (light blue) or untreated (red) or treated with TNFα + calyculin A (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 (Ser529) antibody NFkBp65S529-H3 at 0.01µg/mL. Cat. #2406.



Flow cytometric analysis of C2C12 cells secondary antibody only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using Phospho-NFkB p65 (Ser529) antibody NFkBp65S529-H3 at 1µg/mL. Cat. #2406.