

## 12-4316: Phospho-NFκB p65 (Ser529) (Clone: H3) rabbit mAb

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	NFκBp65S529-H3
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human, Mouse
<b>Conjugate :</b>	Unconjugated
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Transcription factor p65, Nuclear factor NF-kappa-B p65 subunit, Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3, RELA, NFκB3
<b>Isotype :</b>	Rabbit IgG1k
<b>Immunogen Information :</b>	A synthetic phospho-peptide corresponding to residues surrounding Ser529 of human phospho-NFκB 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. NFκB is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFκB1/p105, NFκB1/p50, REL and NFκB2/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. NFκB Ser536 phosphorylation stimulates Lys310 acetylation and interaction of phospho NFκB with CBP. Acetylated/phospho NFκB induces enhanced transcriptional activity.

### Product Info

<b>Amount :</b>	20 μl / 200 μl
<b>Content :</b>	1X PBS, 0.02% NaN <sub>3</sub> , 50% Glycerol, 0.1% BSA
<b>Storage condition :</b>	Store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

1 μg/mL - 0.001 μg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.(0.5mg/ml, more than 200 western blots)

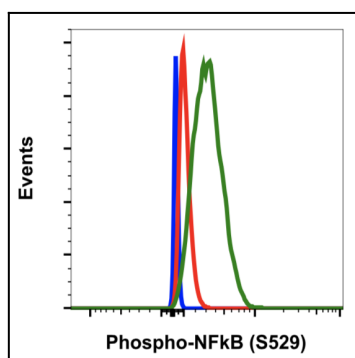


Fig-1: Flow cytometric analysis of HeLa cells secondary antibody only negative control (blue) or untreated (red) or treated with TNFα + calyculin A (green) using Phospho-NFκB p65 (Ser529) antibody NFκBp65S529-H3 at 0.01 μg/mL.

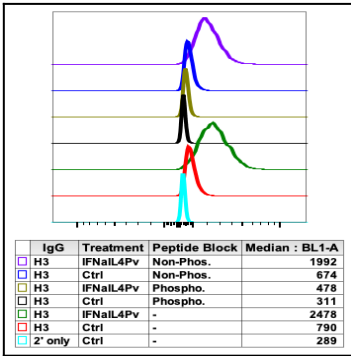


Fig 2 : Peptide blocking flow cytometric analysis of HeLa cells secondary antibody only negative control (light blue) or untreated (red) or treated with TNFα + calyculin A (green) or untreated and blocked with phospho-peptide (black) or treated and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or treated and blocked with non-phospho peptide (purple) using Phospho-NFκB p65 (Ser529) antibody NfκBp65S529-H3 at 0.01μg/mL.

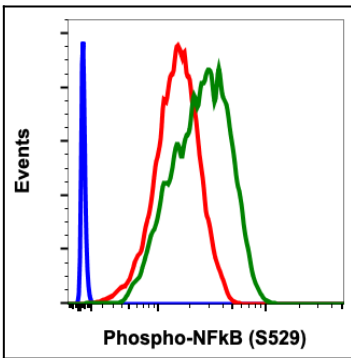


Fig-3: Flow cytometric analysis of C2C12 cells secondary antibody only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using Phospho-NFκB p65 (Ser529) antibody NfκBp65S529-H3 at 1μg/mL.