

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

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal   |
| <b>Clone Name :</b>            | NFkBp65S529-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, NFkB3 |
| <b>Isotype :</b>               | Rabbit IgG1k   |
| <b>Immunogen Information :</b> | A synthetic phospho-peptide corresponding to residues surrounding Ser529 of human phospho-NFkB p65   |

### Description

The nuclear factor kB (NFkB)/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 kB sites in the target gene DNA. Individual dimers have distinct preferences for different kB 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.

### 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)

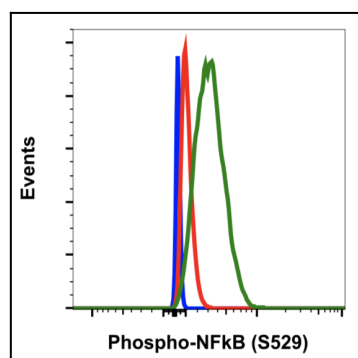


Fig-1: Flow cytometric analysis of HeLa cells secondary antibody only negative control (blue) or untreated (red) or treated with TNFa + calyculin A (green) using Phospho-NFkB p65 (Ser529) antibody NFkBp65S529-H3 at 0.01 µg/mL.

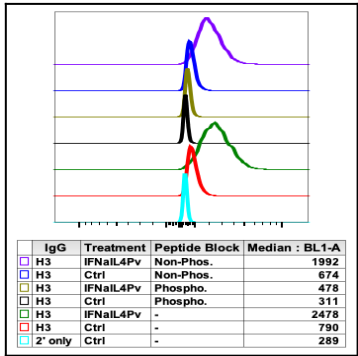


Fig 2 : Peptide blocking flow cytometric analysis of HeLa cells secondary antibody only negative control (light blue) or untreated (red) or treated with TNFα + calyculin A (green) or untreated and blocked with phospho-peptide (black) or treated and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or treated and blocked with non-phospho peptide (purple) using Phospho-NFkB p65 (Ser529) antibody NFkBp65S529-H3 at 0.01μg/mL.

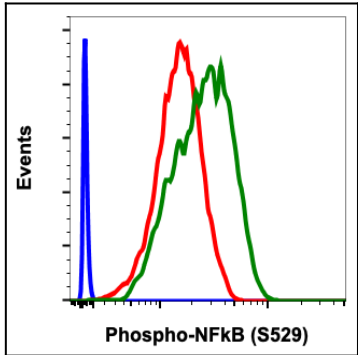


Fig-3: Flow cytometric analysis of C2C12 cells secondary antibody only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using Phospho-NFkB p65 (Ser529) antibody NFkBp65S529-H3 at 1μg/mL.