

# Human Phospho-RelA/NFκB p65 (S529) Antibody

Monoclonal Mouse IgG<sub>2A</sub> Clone # 795217

Catalog Number: MAB7624

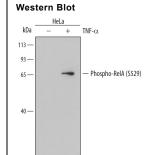
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human RelA/NFκB p65 when phosphorylated at S529
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 795217
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human RelA/NFkB p65 S529 site Accession # Q04206
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

#### DATA



Detection of Human Phospho-RelA/NFkB p65 (S529) by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line untreated (-) or treated (+) with 20 ng/ml. Recombinant Human TNF- $\alpha$  (Catalog # 210-TA) for 10 minutes. PVDF membrane was probed with 1  $\mu$ g/ml. of Mouse Anti-Human Phospho-RelA/NFkB p65 (S529) Monoclonal Antibody (Catalog # MAB7624) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Phospho-RelA/NFkB p65 (S529) at approximately 65 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

## Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

# BACKGROUND

RelA belongs to a family of transcription factors (NFkB (nuclear factor kappa from B cells) complex) that play a fundamental role in inflammatory and immune responses. The NFkB complex is composed of a heterodimer of a Rel family member (RelA, c-Rel, RelB) and either NFkB1 or NFkB2 subunits. RelA and NFkB1 are the most common heterodimeric pair. The NFkB complex is sequestered in the cytoplasm by inhibitory lkB proteins. Upon cellular activation, the ubiquitin-proteosome pathway degrades the lkB proteins allowing the NFkB complex to translocate to the nucleus and activate gene transcription.