

## Product datasheet for **AP20825PU-N**

### NF- $\kappa$ B p65 (RELA) pSer529 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of NF $\kappa$ B-p65 protein only when phosphorylated at Ser529.
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 60, 75 kDa
Gene Name:	RELA proto-oncogene, NF- $\kappa$ B subunit
Database Link:	<a href="#">Entrez Gene 19697 Mouse</a> <a href="#">Entrez Gene 5970 Human</a> <a href="#">Q04206</a>



[View online »](#)

**Background:**

Proteins encoded by the v-Rel viral oncogene and its cellular homolog, c-Rel, are members of a family of transcription factors that include the two subunits of the transcription factor NF $\kappa$ B (p50 and p65) and the Drosophila maternal morphogen, Dorsal. Both proteins specifically bind to DNA sequences that are the same or slight variations of the 10 bp kappaB sequence in the immunoglobulin kappa light chain enhancer. This same sequence is also present in a number of other cellular and viral enhancers. The DNA binding activity of NF $\kappa$ B is activated and NF $\kappa$ B is subsequently transported from the cytoplasm to the nucleus in cells exposed to mitogens or growth factors. cDNAs encoding precursors for two distinct proteins have been described, designated p105 and p100. The p105 precursor contains p50 at its N-terminus and a C-terminal region that when expressed as a separate molecule, designated PDI, binds to p50 and regulates its activity.

**Synonyms:**

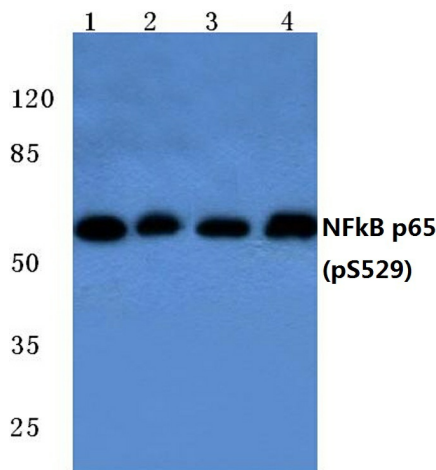
NF kappa B p65, NF $\kappa$ B p65, Transcription factor p65, Rel A, NFKB3

**Protein Families:**

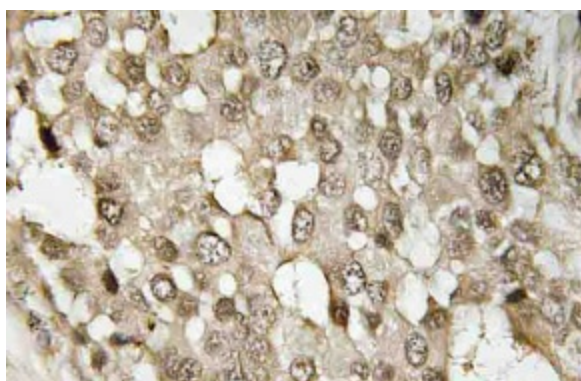
Druggable Genome, Transcription Factors

**Protein Pathways:**

Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

**Product images:**

Western blot (WB) analysis of p-NF $\kappa$ B-p65 antibody (Cat.-No.: AP20825PU-N) at 1/500 dilution. Lane 1: MCF-7 whole cell lysate treated with UV. Lane 2: Raw264.7 whole cell lysate treated with TNF $\alpha$ . Lane 3: Rat tissue lysate. Lane 4: Rat kidney tissue lysate.



Immunohistochemistry (IHC) analyzes of p-NFkappaB-p65 antibody (Cat.-No.: AP20825PU-N) in paraffin-embedded human breast carcinoma tissue.