

Anti-Phospho-NF- κ B p65 (Ser536) Antibody (5Y703)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human; Species predicted to react based on 100% sequence homology: Mouse, Rat, Cynomolgus
Conjugation:	Unconjugated
Clone:	5Y703
Purification:	Protein A

Applications

Verified Activity:	1. Western blot analysis of extracts from serum-starved HeLa, untreated (line A); treated with Calyculin A (200 nM, 30 min) (line B); treated with Calyculin A and λ -phosphatase (line C) using Phospho-NF- κ B p65 (Ser536) Antibody, Rabbit MAb at 1:1000 dilution.
	2. Western blot analysis of extracts from serum-starved HeLa, untreated (-) or treated with Calyculin A (100 nM, 30 min; +), using Phospho-NF- κ B p65 (Ser536) Antibody, Rabbit MAb at 1:5000 dilution (upper) or Beta-Tubulin Loading Control Antibody, Mouse MAb at 1:20000 dilution (lower).
	3. Western blot analysis of extracts from serum-starved HeLa, untreated (line A); treated with Calyculin A (200 nM, 30 min), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-NF- κ B p65 (Ser536) Antibody, Rabbit MAb at 1:5000 dilution. (Validation Experiment)
	4. Western blot analysis of extracts from serum-starved NIH/3T3, untreated (-) or treated with Calyculin A (100 nM, 30 min; +), using Phospho-NF- κ B p65 (Ser536) Antibody, Rabbit MAb at 1:1000 dilution. (Validation Experiment)
Application:	WB
Recommended	WB: 1:2000-1:20000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: residues around Ser536 of the Human NF- κ B p65
Antigen Species:	Human
Synonyms:	NF- κ B; p-NF- κ B p65 (Ser536); NF κ B; NF- κ B; NF- κ B p65 (p-S536); NF- κ B; NF κ B3; NF- κ B; NF- κ B p65 (p-Ser536); p-NF- κ B p65 (S536); p65; AIF3BL3; NF- κ B; Phospho-NF- κ B p65 (S536); CMCU; NF- κ B; NF κ B; NF κ B
Biology Area:	Apoptosis Transcription Factors and Regulators

Research Background

RELA (v-rel reticuloendotheliosis viral oncogene homolog A), also known as Nuclear factor NF- κ B p65 subunit, or Transcription factor p65, is a transcription factor expressed in growth plate chondrocytes where it facilitates

chondrogenesis. The v-rel avian reticuloendotheliosis viral oncogene homolog A (RELA) gene encodes the major component of the NF- κ B complex. NF-kappaB is a generic name for an evolutionarily conserved transcription-factor system that contributes to the mounting of an effective immune response but is also involved in the regulation of cell proliferation, development, and apoptosis. The implication of NF-kappaB in central biological processes and its extraordinary connectivity to other signaling pathways raise a need for highly controlled regulation of NF-kappaB activity at several levels. The mammalian Rel/NF-kappaB family of transcription factors, including RelA, c-Rel, RelB, NF-kappaB1 (p50 and its precursor p105), and NF-kappaB2 (p52 and its precursor p100), plays a central role in the immune system by regulating several processes ranging from the development and survival of lymphocytes and lymphoid organs to the control of immune responses and malignant transformation.

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