

Polyclonal Antibody to NFkBp65 pThr435 - Aff - Purified

Alternate names:	NF-kB p65, NFKB3, Nuclear factor NF-kappa-B p65 subunit, RELA, Transcription factor p65
Catalog No.:	AP09460PU-N
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	c-Rel is the cellular cognate of v-Rel, the avian reticuloendotheliosis virus strain T transforming gene. v-Rel encodes a phosphoprotein that is located in the cytoplasm of transformed spleen cells and in the nucleus of non-transformed fibroblasts, in contrast to the c-Rel protein, which is cytoplasmic. c-Rel has been shown to represent a constituent of the kappaB site binding transcription factor NFkappaB, which plays a crucial role in the expression of immunoglobulin kappa light chain gene. In contrast to c-Rel, v-Rel is truncated in its C-terminal transactivation domain and does not appear to function as a transcriptional transactivator. It has thus been postulated that v-Rel may interfere with the normal transcription of NFkappaB regulated genes and thus cause transformation by a mechanism analogous to v-ErbA, which binds to the thyroid hormoneresponsive region in certain erythroid genes needed for differentiation, but cannot be activated by thyroid hormone.
Host:	Rabbit
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from Human Rel around the phosphorylation site of Serine 503 (T-S-SP-D-S).
Format:	State: Liquid purified Ig fraction. Purification: Affinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site. Buffer System: PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4 with 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Applications:	Immunofluorescence: 1/100~1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects endogenous levels of Rel only when phosphorylated at Serine 503. Species: Human. Other species not tested.
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.
General Readings:	1. Baeuerle, P.A. and Henkel, T. (1994) Annu Rev Immunol 12, 141-79. 2. Baeuerle, P.A. and Baltimore, D. (1996) Cell 87, 13-20.

3. Haskill, S. et al. (1991) Cell 65, 1281-9.
4. Thompson, J.E. et al. (1995) Cell 80, 573-82.

Pictures:

Figure 1. Immunofluorescence staining of methanol-fixed HeLa cells using Rel (phospho-Ser503) antibody (#AP09460PU, Red).

