

## Polyclonal Antibody to NF-kB p50 - Purified

<b>Alternate names:</b>	DP3090, NFkB, NFkappaB
<b>Catalog No.:</b>	AP00573PU-N
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	NF kappa B is a heterodimer consisting of a 50kDa DNA binding subunit and a 65kDa transactivating subunit (RelA). p50 subunit of NFkB has an isoform and both the proteins are derived from larger precursor proteins of 105 and 100kDa respectively. The p50/p65 heterodime is present in the cytoplasm in inactive form bound to its inhibitor, IkB. Upon stimulation of cells with stimuli like LPS, Interleukin-1, IkB gets phosphorylated and degraded by proteosomes releasing the activated NFkB which goes to the nucleus inducing gene expression. NFkB was originally identified as transcriptional activator for kappa light cahain gene in B cells.
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	A synthetic peptide corresponding to human NF kappa B p50 protein. <b>AA Sequence:</b> 44-61 (LQILEQPKQRGFRFRYVC) <b>Remarks:</b> Mol. Wt. of Antigen: 50 kDa
<b>Format:</b>	<b>State:</b> Liquid IgG <b>Purification:</b> Protein A chromatography <b>Buffer System:</b> 10 mM PBS, pH 7.4, with 0.2 % BSA & 0.09 % sodium azide.
<b>Applications:</b>	Immunohistology (Formalin/paraffin): use 10-20 µg/ml for 30 Mins at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min. Recommended positive control: Testis Leyding cells Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects NF kappa B. Cellular Localization: Cytoplasmic and Nuclear <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store the antibody at 2 - 8 °C up to one month or in aliquots at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Ghosh S, et al. (1998) Annu. Rev. Immunol. 16: 225-260. 2. Schmid R M, et al. (1991) Nature 352: 733-736.

**Pictures:**

Formalin-fixed, paraffin-embedded human testis stained with NF kappa (AP00573PU-N) using peroxidase-conjugate and AEC chromogen. Note nuclear and cytoplasmic staining of germ and Leydig cells.

