

For Research Use Only

# NF- $\kappa$ B p65 Recombinant monoclonal antibody

Catalog Number:87545-1-RR



## Basic Information

<b>Catalog Number:</b> 87545-1-RR	<b>GenBank Accession Number:</b> BC094053	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 19697	<b>CloneNo.:</b> 252935D11
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q04207	<b>Recommended Dilutions:</b> WB: 1:2000-1:10000
<b>Immunogen Catalog Number:</b> AG40017	<b>Full Name:</b> v-rel reticuloendotheliosis viral oncogene homolog A (avian)	
	<b>Observed MW:</b> 65 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB: A431 cells, NIH/3T3 cells, HSC-T6 cells, PC-12 cells, mouse testis tissue, rat testis tissue
<b>Species Specificity:</b> human, mouse, rat	

## Background Information

Rela, also known as p65, is one of the most critical and extensively studied members of the nuclear factor  $\kappa$ B (NF- $\kappa$ B) transcription factor family. As the core executor of the NF- $\kappa$ B signaling pathway, it typically forms the canonical p65-p50 heterodimer with the p50 subunit. In the resting state, Rela is anchored in the cytoplasm by the I $\kappa$ B inhibitory protein. Once the cell receives external stimuli such as inflammatory cytokines (TNF- $\alpha$ , IL-1), pathogen-associated molecular patterns (PAMPs), or stress signals, the I $\kappa$ B kinase (IKK) complex is activated, leading to the degradation of I $\kappa$ B and the release of Rela/p65. The activated Rela rapidly translocates to the nucleus, initiating the transcription of a large number of target genes that are widely involved in key biological processes such as acute inflammatory responses, cell survival, proliferation, and differentiation. Therefore, Rela serves as the core hub connecting upstream signals with downstream gene expression and plays a crucial role in immune responses, inflammatory diseases, and cancer.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

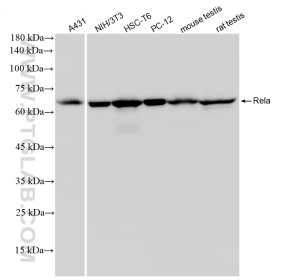
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

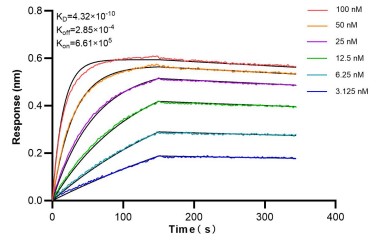
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87545-1-RR (Rela antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87545-1-RR against Mouse RelA were performed. The affinity constant is 0.432 nM.