

For Research Use Only

# NF- $\kappa$ B p65 Polyclonal antibody

Catalog Number: 33259-1-AP

1 Publications



## Basic Information

<b>Catalog Number:</b> 33259-1-AP	<b>GenBank Accession Number:</b> BC094053	<b>Purification Method:</b> Antigen affinity Purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 19697	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:1500-1:6000 IF-P: 1:50-1:500
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q04207	
<b>Immunogen Catalog Number:</b> AG40017	<b>Full Name:</b> v-rel reticuloendotheliosis viral oncogene homolog A (avian)	
	<b>Observed MW:</b> 60 kDa	

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Species Specificity:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** A431 cells, NIH/3T3 cells, mouse testis tissue, rat testis tissue

**IHC:** mouse testis tissue, mouse lung tissue

**IF-P:** mouse testis tissue, mouse lung tissue

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhuo Zhao	40360040	J Ethnopharmacol	

## 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:

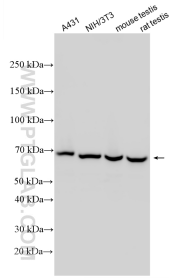
T: 4006900926

E: Proteintech-CN@ptglab.com

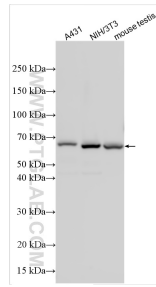
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

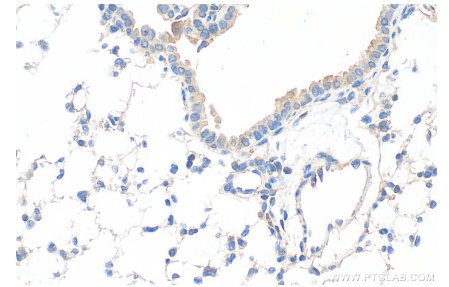
## Selected Validation Data



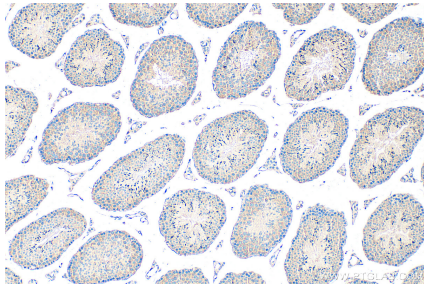
Various lysates were subjected to SDS PAGE followed by western blot with 33259-1-AP (NF- $\kappa$ B p65 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



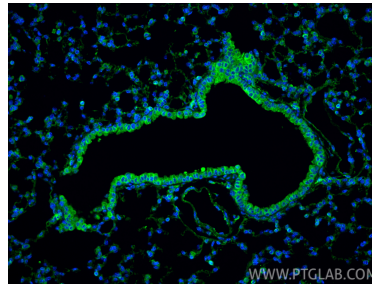
Various lysates were subjected to SDS PAGE followed by western blot with 33259-1-AP (Rela antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



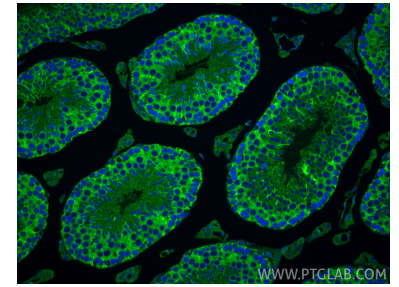
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 33259-1-AP (Rela antibody) at dilution of 1:3000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 33259-1-AP (Rela antibody) at dilution of 1:3000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse lung tissue using Rela antibody (33259-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse testis tissue using Rela antibody (33259-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).