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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Datasheet for 100-4165S**NFKB p65 Antibody****Overview**

| | |
|----------------------|---|
| Description: | Anti-NFKB p65 (Rel A) (RABBIT) Antibody - 100-4165S |
| Item No.: | 100-4165S |
| Size: | 25 µL |
| Applications: | ELISA, IHC, WB, ChIP, EMSA, IF, IP |
| Reactivity: | Human, Mouse |
| Host Species: | Rabbit |

Product Details

| | |
|----------------------|--|
| Background: | Anti NFKB p65 Antibody recognizes NFKB p65 which is a component of NFKB. NFKB was originally identified as a factor that binds to the immunoglobulin kappa light chain enhancer in B cells. It was subsequently found in non-B cells in an inactive cytoplasmic form consisting of NFkappaB bound to IkappaB. NFkappaB was originally identified as a heterodimeric DNA binding protein complex consisting of p65 (RelA) and p50 (NFKB1) subunits. Other identified subunits include p52 (NFKB2), c-Rel, and RelB. The p65, cRel, and RelB subunits are responsible for transactivation. The p50 and p52 subunits possess DNA binding activity but limited ability to transactivate. p52 has been reported to form transcriptionally active heterodimers with the NFkappaB subunit p65, similar to p50/p65 heterodimers. The heterodimers of p52/p65 and p50/p65 are regulated by physical inactivation in the cytoplasm by IkappaBalpha. Ideal for Cardiovascular , Cell Biology, Immunology, Signal Transduction research. |
| Synonyms: | rabbit Anti-NFKB p65 antibody, rabbit Anti-Rel A antibody, NFKB, nfkb, NF-kB, NF-kappaB, NFkappaB, Nuclear factor NF-kappa-B p65 subunit |
| Host Species: | Rabbit |
| Clonality: | Polyclonal |
| Format: | Antiserum |

Target Details

| | |
|--------------------|--------------|
| Gene Name: | RELA |
| Reactivity: | Human, Mouse |

| | |
|----------------------------|---|
| Immunogen Type: | Conjugated Peptide |
| Immunogen: | NFkB p65 (Rel A) peptide corresponding to a region near the C-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH). |
| Purity/Specificity: | This product was prepared from monospecific antiserum by delipidation and defibrination. Anti-NFkB p65 (Rel A) may react non-specifically with other proteins. Control peptide (code #100-4165p) will compete only with the specific reaction of antiserum with the NFkB p65 (Rel A) subunit. |
| Relevant Links: | <ul style="list-style-type: none">• UniProtKB - Q04206• GeneID - 5970• NCBI - 223468676 |

Application Details

| | |
|--------------------------------|--|
| Tested Applications: | ELISA, IHC, WB |
| Suggested Applications: | ChIP, EMSA, IF, IP (Based on references) |
| Application Note: | Anti-NFkB p65 (Rel A) is tested by immunoblot of human and mouse NFkB p65 (Rel A), immunohistochemistry, and ELISA. This product was also tested in a gel supershift assay, IP, IF, and ChIP and found to be reactive against all p65 (Rel A) containing human, mouse or rat NFkB complexes using 0.5 to 1.0 µl per assay. |
| Assay Dilutions: | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| ChIP: | 1 µl/IP |
| ELISA: | 1:5,000 |
| EMSA: | 05 µL - 1.0 µL |
| IF: | User Optimized |
| IHC: | 1:400 |
| IP: | User Optimized |
| WB: | 1:2,000 - 1:5,000 |

Formulation

| | |
|------------------------|---------------------------|
| Physical State: | Liquid (sterile filtered) |
| Concentration: | 80 mg/mL by Refractometry |
| Buffer: | None |

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

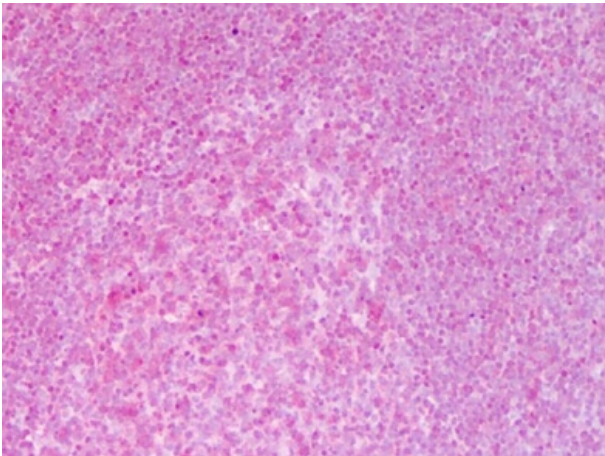
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

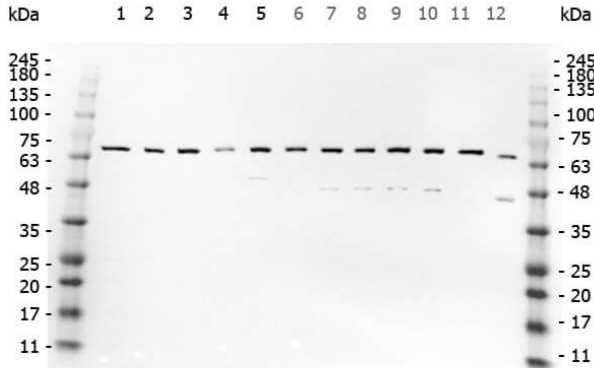
Expiration: Expiration date is one (1) year from date of receipt.

Images



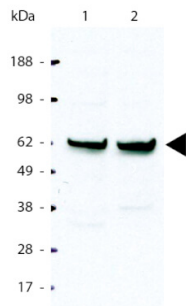
Immunohistochemistry

Immunohistochemistry of NFKB p65 (Rel A) antibody.
Tissue: lymphocytes and germinal center cells of the human tonsil. Fixation: formalin fixed paraffin embedded. Antigen retrieval: user optimized. Primary antibody: NFKB p65 (Rel A) antibody at 1:400. Secondary antibody: Peroxidase goat anti-rabbit at (p/n 611-103-122) 1:10,000 for 45 min at RT. Localization: nuclear and occasionally cytoplasmic. Staining: Moderate positive nuclear or cytoplasmic staining was observed in lymphocytes and germinal center cells of the tonsil.



Western Blot

Western Blot of Rabbit anti-NFkB antibody. Marker: Opal Pre-stained ladder (p/n MB-210-0500). Lane 1: HEK293 lysate (p/n W09-000-365). Lane 2: HeLa Lysate (p/n W09-000-364). Lane 3: MCF-7 Lysate (p/n W09-000-360). Lane 4: Jurkat Lysate (p/n W09-000-370). Lane 5: A431 Lysate (p/n W09-000-361). Lane 6: A549 Lysate (p/n W09-001-372). Lane 7: LNCap Lysate (p/n W09-001-GJ9). Lane 8: MOLT-4 Lysate (p/n W09-001-GK2). Lane 9: Ramos Lysate (p/n W09-000-GK4). Lane 10: Raji Lysate (p/n W09-001-368). Lane 11: A-172 Lysate (p/n W09-001-GL5). Lane 12: NIH/3T3 Lysate (p/n W10-000-358). Load: 10 µg per lane. Primary antibody: NFkB antibody at 1:500 overnight at 4C. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-122) at 1:30,000 for 60 min at RT. Blocking Buffer: 1% Casein-TTBS (p/n MB-082) for 30 min at RT. Predicted/Observed size: 65 kDa for NFkB.



Western Blot

Western Blot of Rabbit anti-NFkB p65 (Rel A) antibody. Lane 1: HeLa cell lysate (p/n W09-000-364). Lane 2: HeLa cell lysate (p/n W09-000-364). Load: 35 µg per lane. Primary antibody: NFkB p65 Rel A antibody at 1:5000 for 2 H at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:2000 for 60 min at RT. Block: 5% BLOTTO 2 H at RT. Predicted/Observed size: ~65 kDa, ~65 kDa for NFkB p65 Rel A. Other band(s): None.

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