Anti-Phospho-NF-kB p65 (Ser529) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014572

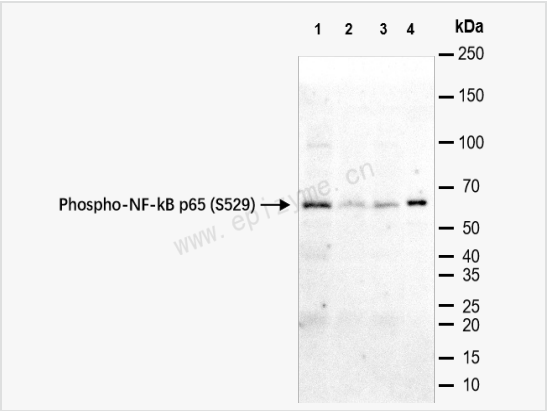
Product Information

Application	IF (Cell)/ICC, ELISA, WB, IHC-P/IF (Tissue-P)
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	42H48G95
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human NF-κB p65
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-NF-kB p65 (Ser529) Rabbit mAb [42H48G95] is for research use only and not for use in diagnostic or therapeutic procedures.

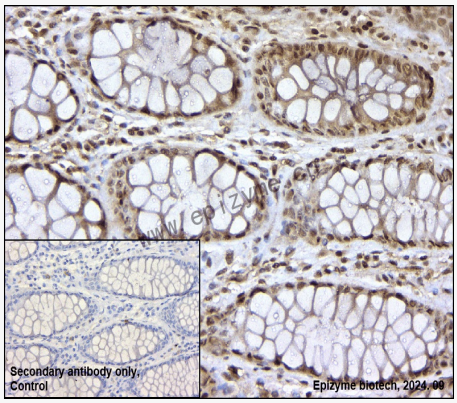
Protein Information

Synonyms	Avian reticuloendotheliosis viral (v rel) oncogene homolog A, MGC131774, NF kappa B p65delta3, nfkappabp65, NFkB p65, NFKB3, Nuclear factor kappaB, Nuclear Factor NF Kappa B p65 Subunit, Nuclear factor NF-kappa-B p65 subunit, Nuclear factor of kappa light polypeptide gene enhancer in B cells 3, Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3, OTTHUMP00000233473, OTTHUMP00000233474, OTTHUMP00000233475, OTTHUMP00000233476, OTTHUMP00000233900, p65, p65 NF kappaB, p65 NFkB, relA, TF65_HUMAN, Transcription factor NFKB3, Transcription factor p65, v rel avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light polypeptide gene enhancer in B cells 3 (p65)), V rel avian reticuloendotheliosis viral oncogene homolog A, v rel reticuloendotheliosis viral oncogene homolog A (avian), V rel reticuloendotheliosis viral oncogene homolog A, nuclear factor of kappa light polypeptide gene enhancer in B cells 3, p65.
Calculated MW	Calculated MW: 60 kDa; Observed MW: 65 kDa
Uniprot ID	Q04206
Gene ID	5970
Background	NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA, or RELB (MIM 604758) to form the NFKB complex. The p50 (NFKB1)/p65 (RELA) heterodimer is the most abundant form of NFKB. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 164008 or NFKBIB, MIM 604495), which inactivate NFKB by trapping it in the cytoplasm.
Cellular Location	Nucleus. Cytoplasm. Nuclear, but also found in the cytoplasm in an inactive form complexed to an inhibitor (I-kappa-B).

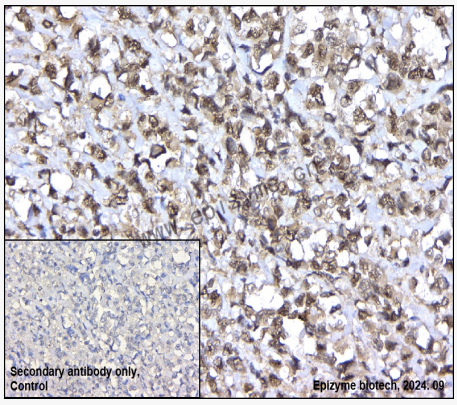
Validation Images



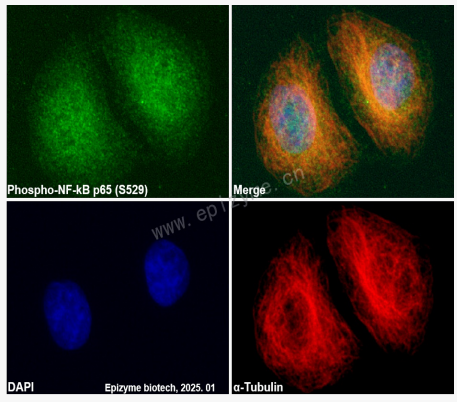
Western Blot - Anti-Phospho-NF-kB p65 (S529) Rabbit mAb [42H48G95]
All lanes: R014572 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 60 kDa
Observed band size: 65 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-NF-kB p65 (S529) Rabbit mAb [42H48G95]
Sample: Paraformaldehyde-fixed, paraffin embedded human colonic cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014572 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-NF-kB p65 (S529) Rabbit mAb [42H48G95]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014572 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Phospho-NF-kB p65 (S529) Rabbit mAb [42H48G95]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014572 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).