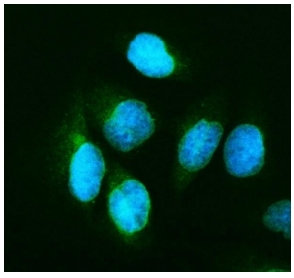
p65 Antibody / NF-kB (R30754)

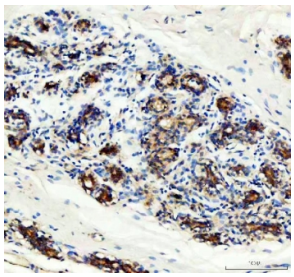
Catalog No.	Formulation	Size
R30754	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

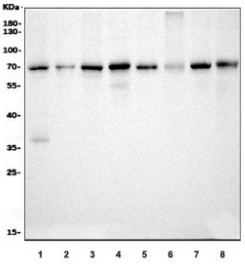
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q04206
Localization	Cytoplasmic, nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml
Limitations	This p65 antibody is available for research use only.



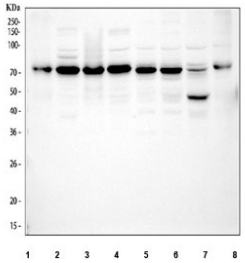
Immunofluorescent staining of FFPE human U-2 OS cells with p65 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE human breast cancer tissue with p65 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) human HepG2, 3) human Caco-2, 4) human Raji, 5) rat PC-12, 6) rat C6, 7) mouse NIH 3T3 and 8) mouse ANA-1 cell lysate with p65 antibody. Expected molecular weight ~65 kDa.



Western blot testing of 1) human HT-1080, 2) human HeLa, 3) human Raji, 4) human HepG2, 5) rat PC-12, 6) rat C6, 7) mouse NIH 3T3 and 8) mouse ANA-1 cell lysate with p65 antibody. Expected molecular weight ~65 kDa.

Description

RELA, also called NFKB3 or NFKB, p65 subunit is part of the NF-kB complex. The complex is inhibited by I-kappa-B proteins, which inactivates NFkB by trapping it in the cytoplasm. The p65 heterodimer is the most abundant form of NF-kB. It is a nonhistone substrate of HDAC3 and that IKBA-dependent nuclear export of the HDAC3-deacetylated RELA replenishes the depleted cytoplasmic pool of latent NFKB-IKBA complexes for subsequent NF-kB responses. Its nucleocytoplasmic redistribution coincided with export of PPARG, and immunoprecipitation analysis indicated that PPARG-RELA association was dependent on the PPARG C-terminal ligand-binding domain. IKK-dependent phosphorylation of RELA on Ser468 enhanced binding of GCN5 to RELA and its ubiquitination.

Application Notes

The stated application concentrations are suggested starting points. Titration of the p65 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

1. HIER: steaming with pH6 citrate buffer is required for FFPE testing.

Immunogen

An amino acid sequence from the middle region of the human protein (VPIEEQRGDYDLNAVR) was used as the immunogen for this p65 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the p65 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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