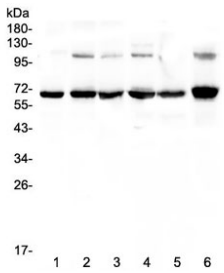
p65 Antibody (RQ4439)

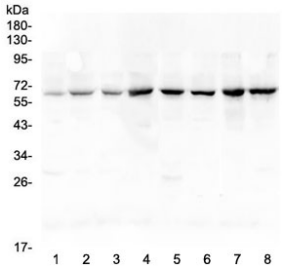
Catalog No.	Formulation	Size
RQ4439	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

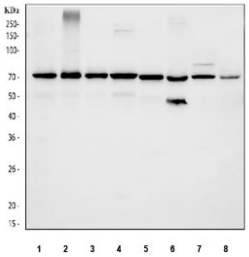
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q04206
Localization	Nucleus, Cytoplasm
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml (human recombinant protein)
Limitations	This p65 antibody is available for research use only.



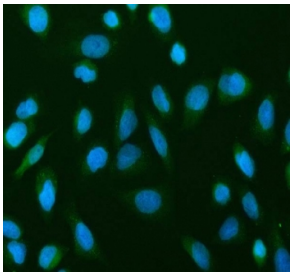
Western blot testing of human 1) COLO-320, 2) A549, 3) HepG2, 4) MDA-MB-231, 5) PANC-1 and 6) A375 lysate with p65 antibody at 0.5ug/ml. Expected molecular weight ~65 kDa.



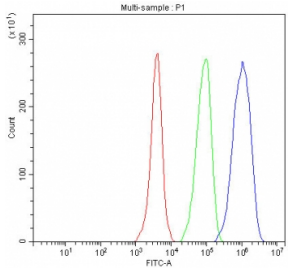
Western blot testing of rat 1) spleen, 2) lung, 3) kidney, 4) testis and mouse 5) spleen, 6) lung, 7) testis and 8) NIH3T3 lysate with p65 antibody at 0.5ug/ml. Expected molecular weight ~65 kDa.



Western blot testing of 1) human HeLa, 2) human Raji, 3) human HepG2, 4) human K562, 5) rat PC-12, 6) rat RH35, 7) mouse RAW264.7 and 8) mouse HEPA1-6 cell lysate with p65 antibody at 0.5ug/ml. Expected molecular weight ~65 kDa.



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.



Flow cytometry testing of fixed and permeabilized human HeLa cells with p65 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= p65 antibody.

Description

Transcription factor p65, also known as NFKB3 or NF-kB p65, is a protein that in humans is encoded by the RELA gene. It is mapped to 11q13.1. NFKB is an essential transcription factor complex involved in all types of cellular processes, including cellular metabolism, chemotaxis, etc, and it may play a role in inflammatory conditions of the peripheral nervous system. Phosphorylation and acetylation of NFKB3 are crucial post-translational modifications required for NFKB activation. It has also been shown to modulate immune responses, and activation of NFKB3 is positively associated with multiple types of cancer. In addition to that, NFKB3 antagonizes TNFR1-JNK proliferative signals in epidermis and plays a nonredundant role in restraining epidermal growth.

Application Notes

Optimal dilution of the p65 antibody should be determined by the researcher.

Immunogen

Human NF-kB p65 recombinant protein (amino acids F99-S551) was used as the immunogen for the p65 antibody.

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.