

PE anti-NF-κB p65 Antibody

Catalog# / Size	611355 / 25 tests 611356 / 100 tests
Clone	A21012A
Regulatory Status	RUO
Other Names	RelA, P65, NFKB3, Nuclear Factor NF-Kappa-B P65 subunit, Transcription Factor P65, NF-Kappa-B Transcription Factor P65, RELA Proto-Oncogene NF-KB subunit
Isotype	Mouse IgG1, κ
Description	NF-κB p65, also known as NFKB3 and RelA, is one of five members of the nuclear factor κB (NF-κB)/Rel family. Inactive NF-κB p65 is sequestered in the cytoplasm as a complex with IκB inhibitory proteins. Upon activation of the NF-κB pathway, IκB proteins are degraded, thus releasing NF-κB p65 to the nucleus. Binding of NF-κB p65 to transcriptional cofactors is induced via phosphorylation on serines 276, 529, 536, and 471. As a transcription factor, NF-κB p65 is vital to cell proliferation, immune response, survival, and apoptosis. Through regulation of chondrocyte and osteoblast differentiation and survival, NF-κB p65 has a crucial role in skeletal development. Overexpressed in several cancers, NF-κB p65 functions as an oncogene and has been implicated in tumorigenesis, metastasis, tumor angiogenesis, and chemoresistance.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Synthetic peptide corresponding to human NF-κB p65
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	When testing by ICC, we recommend fixation with 4% PFA followed by permeabilization with Triton X-100 or ice-cold methanol.
RRID	AB_3675159 (BioLegend Cat. No. 611355) AB_3675159 (BioLegend Cat. No. 611356)

Antigen Details

Structure	NF- κ B p65 is a 551 amino acid protein with a predicted molecular weight of 60 kD.
Distribution	Ubiquitously expressed/Cytoplasm and Nucleus
Function	Transcription, RAS pathway, host-virus interaction, oncogene
Interaction	NF- κ B, TLE5, TLE1, TP53BP2, GSK3B, MAP3K14, HDAC3, AKIP1, FOXP3
Biology Area	Cell Biology, Immuno-Oncology, Immunology, Innate Immunity, Transcription Factors
Molecular Family	Phospho-Proteins
Antigen References	<ol style="list-style-type: none"> 1. Giridharan S and Srinivasan M. 2018. <i>J Inflamm Res.</i> 11:407-419. 2. Ren C, <i>et al.</i> 2021. <i>Cell Death Differ.</i> 29:381-392. 3. Yu S, <i>et al.</i> 2020. <i>FEBS Lett.</i> 594:1368-1378.
Gene ID	NA

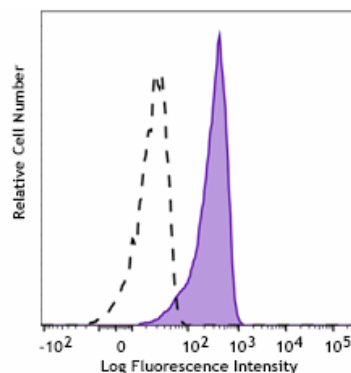
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-NF- κ B p65, Alexa Fluor® 647 anti-NF- κ B p65, PE anti-NF- κ B p65

Product Data



Peripheral blood mononuclear cells (PBMC) were fixed with the True-Phos™ Perm Buffer (Cat. No. 425401), and then intracellularly stained with either PE anti-NF- κ B p65 (clone A21012A) (filled histogram) or PE mouse IgG1, κ Isotype Control (open histogram, dashed line) (Cat. No. 400102).

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