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Product datasheet for TA319553

NF-kB p65 (RELA) Mouse Monoclonal Antibody [Clone ID: 27F9.G4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	27F9.G4
Applications:	IF, IHC, WB
Recommended Dilution:	ELISA: 1:50,000-1:100,000, WB: 1:1,000-1:5,000, IHC: 1:200-1:600, IF: 1:5,000
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Immunogen:	NFkB p65 (Rel A) peptide corresponding to a region near the C-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	RELA proto-oncogene, NF-kB subunit
Database Link:	NP_001138610 Entrez Gene 5970 Human Q04206
Synonyms:	NFKB3; p65
Note:	NFkappaB was originally identified as a factor that binds to the immunoglobulin kappa light chain enhancer in B cells. 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. Cell Biology, Nuclear Signaling, Neuroscience and Signal Transduction Research.
Protein Families:	Druggable Genome, Transcription Factors

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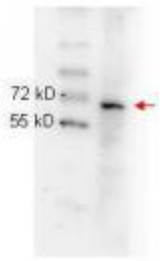
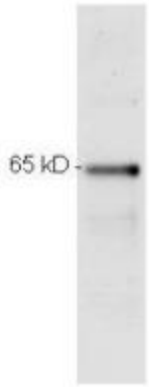
Protein Pathways: Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

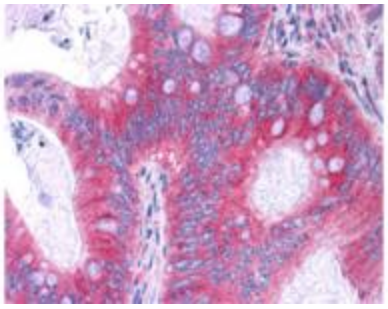
Product images:



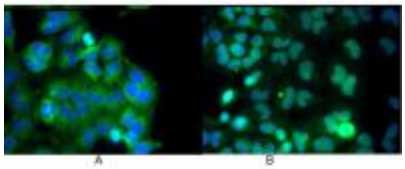
anti NFKB p65 (Rel A) monoclonal antibody TA319553 was used to detect ~65 kD band (red arrow) in HeLa whole cell lysate. Lysate was run on 4-20% gradient gel transferred under standard conditions and blocked in 1% BSA-TTBS 30 min RT. Blot was probed with monoclonal anti p65 1:1000 in 1% BSA-TBS-T o/n 4°C and detected with HRP conjugated Rb-anti Mouse antibody 1:40,000 in MB-070 30 min RT.



monoclonal anti p65 TA319553 was used to detect p65 by Western blot. Samples were prepared in RIPA lysis buffer, boiled with NuPage 4x LDS Sample Buffer and run on NuPage 4-12% Bis-Tris Gels. Blot was incubated with primary antibody at a dilution of 1:500 and detected with HRP conjugated anti mouse antibody at a dilution of 1:10000. Image provided courtesy of Dr. Al Baldwin, University of North Carolina, Chapel Hill.



Antibody TA319553 has been tested in IHC, analyzed by an anatomic pathologist and validated for use in IHC applications against formalin-fixed, paraffin-embedded human tissues. The antibody produced an excellent signal with almost no background staining at a concentration of 2.5 ug/ml. The image displayed shows specific staining in colon carcinoma as the precipitated red signal, with a hematoxylin purple nuclear counterstain.



Monoclonal anti NFKB p65 (Rel A) antibody was used to detect p65 by IF at a dilution of 1:5000. Hela cells were either unstimulated (A), or stimulated (B) with 50 ng/ml of TNF alpha for 30 min prior fixation.