Nf-Kappab P65 ELISA Kit for Human, Mouse

PRODUCT OVERVIEW

Product Name	NF-kappaB p65, ELISA Kit
Full Product Name	Phospho-NF-kappaB p65 (Ser311) Colorimetric Cell-Based ELISA Kit
Product Gene Name	NF-kappaB p65 elisa kit
Product Synonym Gene Name	RELA
Product Synonym Names	NFKB3; nuclear factor NF-kappa-B p65 subunit; p65; RELA; TF65; transcription factor p65
Species Reactivity	Human, Mouse
Assay Type	Phospho Cell-Based ELISA
Samples	Researchers plate their cell line of choice
Sensitivity	>=5000 cells/well
Form/Format	Two 96-Well Plates
Preparation and Storage	Store at 4 degree C.
Molecular Weight	60219
OMIM	M62399 mRNA
3D Structure	ModBase 3D Structure for Q04206
Reactivity Note	Human: S311, Mouse: S311
Detection Method	Colorimetric 450 nm
Product Categories/Family for NF-kappaB p65 elisa kit	Cell Based ELISA Kit
Related Product Information for NF-kappaB p65 elisa kit	MBS9501517 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the NF-kappaB p65, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing NF-kappaB p65. The ELISA analytical biochemical technique of the MBS9501517 kit is based on NF-kappaB p65 antibody-NF-kappaB p65 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect NF-kappaB p65 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, NF-kappaB p65. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of NF-kappaB p65 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NF-kappaB p65. It may not necessarily be applicable to this product.

NCBI GI #	223468681
NCBI GeneID	5970
NCBI Accession #	NP_001138610.1
UniProt Primary Accession #	Q04206

UniProt Secondary Accession #	Q6GTV1; Q6SLK1
UniProt Related Accession #	Q04206
GenBank Nucleotide #	NM_001145138.1
NCBI Official Full Name	transcription factor p65 isoform 2
NCBI Official Synonym Full Names	RELA proto-oncogene, NF-kB subunit
NCBI Official Symbol	RELA
NCBI Official Synonym Symbols	p65; NFKB3
UniProt Protein Name	Transcription factor p65
UniProt Synonym Protein Names	Nuclear factor NF-kappa-B p65 subunit; Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3
UniProt Gene Name	RELA
UniProt Synonym Gene Names	NFKB3
NCBI Protein Information	transcription factor p65
NCBI Summary for NF-kappaB p65	NF-kappa-B is a ubiquitous transcription factor involved in several biological processes. It is held in the cytoplasm in an inactive state by specific inhibitors. Upon degradation of the inhibitor, NF-kappa-B moves to the nucleus and activates transcription of specific genes. NF-kappa-B is composed of NFKB1 or NFKB2 bound to either REL, RELA, or RELB. The most abundant form of NF-kappa-B is NFKB1 complexed with the product of this gene, RELA. Four transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

UniProt Comments for NF-kappaB p65	NFkB-p65: a subunit of NF-kappa-B transcription complex, which plays a crucial role in inflammatory and immune responses. The inhibitory effect of I-kappa-B upon NF-kappa-B in the cytoplasm is exerted primarily through the interaction with p65. P65 shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-kappa-B complex. There are five NFkB proteins in mammals (RelA/NFkB-p65, RelB, c-Rel, NF-_B1/NFkB-p105, and NF-_B2/NFkB-p100). They form a variety of homodimers and heterodimers, each of which activates its own characteristic set of genes. Three splice-variant isoforms have been identified. Protein type: DNA-binding; Nuclear receptor co-regulator; Transcription factor Chromosomal Location of Human Ortholog: 11q13.1 Cellular Component: cytoplasm; cytosol; nuclear chromatin; nucleolus; nucleoplasm; nucleus; transcription factor complex Molecular Function: actinin binding; activating transcription factor binding; ankyrin repeat binding; chromatin binding; chromatin DNA binding; DNA binding; DNA binding transcription factor activity; histone deacetylase binding; identical protein binding; NF-kappaB binding; phosphate binding; protein binding; protein complex binding; protein heterodimerization activity; protein homodimerization activity; protein kinase binding; protein N-terminus binding; transcription factor activity, RNA polymerase II distal enhancer sequence-specific binding; transcription factor binding; transcription regulatory region DNA binding; ubiquitin protein ligase binding Biological Process: acetaldehyde metabolic process; aging; cellular defense response; cellular response to hydrogen peroxide; cellular response to interleukin-1; cellular response to interleukin-6; cellular response to nicotine; cellular response to peptide hormone stimulus; cellular response to tumor necrosis factor; cytokine-mediated signaling pathway; defense response to virus; Fc-epsilon receptor signaling pathway; hair follicle development; inflammatory response; liver development; membrane protein intracellular domain proteolysis; negative regulation of apoptosis; negative regulation of extrinsic apoptotic signaling pathway; negative regulation of insulin receptor signaling pathway; negative regulation of NIK/NF-kappaB signaling; negative regulation of protein catabolic process; negative regulation of protein sumoylation; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; nucleotide-binding oligomerization domain containing 2 signaling pathway; organ morphogenesis; positive regulation of cell proliferation; positive regulation of chondrocyte differentiation; positive regulation of I-kappaB kinase/NF-kappaB signaling; positive regulation of interferon type I production; positive regulation of interleukin-12 biosynthetic process; positive regulation of miRNA metabolic process; positive regulation of NF-kappaB transcription factor activity; positive regulation of NIK/NF-kappaB signaling; positive regulation of Schwann cell differentiation; positive regulation of T cell receptor signaling pathway; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription from RNA polymerase II promoter involved in cellular response to chemical stimulus; positive regulation of transcription, DNA-templated; regulation of DNA-templated transcription in response to stress; regulation of inflammatory response; regulation of NIK/NF-kappaB signaling; regulation of transcription, DNA-templated; response to amino acid; response to cAMP; response to cobalamin; response to drug; response to insulin stimulus; response to morphine; response to muramyl dipeptide; response to muscle stretch; response to organic substance; response to progesterone; response to UV-B; stimulatory C-type lectin receptor signaling pathway; T cell receptor signaling pathway; tumor necrosis factor-mediated signaling pathway; viral process
Research Articles on NF-kappaB p65	**1.** Because the expression of these genes correlates with cell shape, these are likely mechanosensitive genes that regulate SMAD3 and/or RELA activation in response to mechanical cues
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