Immunotag™ NFκB-p105 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT5109
Product Description	Immunotag™ NFκB-p105 Polyclonal Antibody
Size	50 μg, 100 μg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannorder and is not eligible for return.
Target Protein	NFkB p105
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	Synthesized peptide derived from NFkB-p105 . at AA range: 840-920
Specificity	NFκB-p105 Polyclonal Antibody detects endogenous levels of NFκB-p105 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-spec
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	NFKB1
Accession No.	P19838 P25799
Alternate Names	NFKB1; Nuclear factor NF-kappa-B p105 subunit; DNA-binding factor KBF1; EBP-1; Nuclear factor of kap gene enhancer in B-cells 1

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Description	nuclear factor kappa B subunit 1(NFKB1) Homo sapiens This gene encodes a 105 kD protein which can processing by the 26S proteasome to produce a 50 kD protein. The 105 kD protein is a Rel protein-specinhibitor and the 50 kD protein is a DNA binding subunit of the NF-kappa-B (NFKB) protein complex. NF regulator that is activated by various intra- and extra-cellular stimuli such as cytokines, oxidant-free ra irradiation, and bacterial or viral products. Activated NFKB translocates into the nucleus and stimulates genes involved in a wide variety of biological functions. Inappropriate activation of NFKB has been asso inflammatory diseases while persistent inhibition of NFKB leads to inappropriate immune cell developm growth. Alternative splicing results in multiple transcript variants encoding different isof
Cell Pathway/ Category	MAPK_ERK_Growth,MAPK_G_Protein,Chemokine,Apoptosis_Inhibition,Apoptosis_Mitochondrial,Apoptosis like receptor,RIG-I-like receptor,Cytosolic DNA-sensing pathway,T_Cell_Receptor,B_Cell_Antigen,Neurotrophin,Adipocytokine,Epithelial cell signaling in Helicob infection,Pathways in cancer,Pancreatic cancer,Prostate cancer,Chronic myeloid leukemia,Acute myelo lung cancer,
Protein Expression	Muscle,Rectum tumor,Uterus,
Subcellular Localization	nucleus,nucleoplasm,cytoplasm,mitochondrion,cytosol,l-kappaB/NF-kappaB complex,

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pleiotropic transcription factor which is present in almost all cell types and is involved in many biologic inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a hon complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, the heterodimeric p65-p50 complex appears to be most abundant one. The dimers bind at kappa-B site target genes and the individual dimers have distinct preferences for different kappa-B sites that they c distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and su compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B comp cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different ac degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. NF-kappa-E and RelB-p50 complexes are transcriptional activators. The NF-kappa-B p50-p50 homodimer is a transcriptional can act as a transcriptional activator when associated with BCL3. NFKB1 appears to have dual function retention of attached NF-kappa-B proteins by p105 and generation of p50 by a cotranslational processi mediated process ensures the production of both p50 and p105 and preserves their independent funct of NFKB1/p105 also appears to occur post-translationally. p50 binds to the kappa-B consensus sequence located in the enhancer region of genes involved in immune response and acute phase reactions. In a NFKB1/p105 represses MAP3K8-induced MAPK signaling; active MAP3K8 is released by proteasome-dep NFKB1/p105., induction: By phorbol ester and TNF-alpha., PTM: Phosphorylation at 'Ser-903' and 'Ser-907' and 'Ser-907' and 'Ser-907' and 'Ser-908' and 'Serproteolytic processing in response to TNF-alpha stimulation. Phosphorylation at 'Ser-927' and 'Ser-932' BTRC/BTRCP-mediated proteolysis., PTM: Polyubiquitination seems to allow p105 processing., PTM: S-nitro affects DNA binding.,PTM:While translation occurs, the particular unfolded structure after the GRR repe generation of p50 making it an acceptable substrate for the proteasome. This process is known as cotr The processed form is active and the unprocessed form acts as an inhibitor (I kappa B-like), being able complexes with NF-kappa B, trapping it in the cytoplasm. Complete folding of the region downstream of precludes processing., similarity: Contains 1 death domain., similarity: Contains 1 RHD (Rel-like) domain., ANK repeats., subcellular location: Nuclear, but also found in the cytoplasm in an inactive form complex kappa-B)., subunit: Component of the NF-kappa-B p65-p50 complex. Component of the NF-kappa-B p65-Homodimer; component of the NF-kappa-B p50-p50 complex. Component of the NF-kappa-B p105-p50 the NF-kappa-B p50-c-Rel complex. Component of a complex consisting of the NF-kappa-B p50-p50 hor interacts with MAP3K8. NF-kappa-B p50 subunit interacts with NCOA3 coactivator, which may coactivate dependent expression via its histone acetyltransferase activity. Interacts with DSIPI; this interaction pro translocation and DNA-binding. Interacts with SPAG9 and UNC5CL. NFKB1/p105 interacts with CFLAR; t p105 processing into p50. NFKB1/p105 forms a ternary complex with MAP3K8 and TNIP2. Interacts with

prevents processing of p105 to p50. NFKB1/p50 interacts with NFKBIE. NFKB1/p50 interacts with NFKBI

domain:Glycine-rich region (GRR) appears to be a critical element in the generation of p50.,domain:The might be involved in cytoplasmic retention, inhibition of DNA-binding, and transcription activation.,fund

Protein Function

Usage

For Research Use Only! Not for diagnostic or therapeutic procedures.

kappa-B p50 subunit interacts with NFKBID.,