



## NFkB-p52 (Cleaved-A454) mouse mAb

kappa light polypeptide gene enhancer in B-cells 2;Oncogene Lyt-10;Lyt10) [Cleaved into: Nuclear factor NF-kappa-B p52 subunit]  52 105kD		
Reactivity Human;Mouse;Rat  Applications WB  Gene Name NFKB2 LYT10  Protein Name NF k B-p52 (Cleaved-A454)  Immunogen Synthesized peptide derived from human NF k B-p52 (Cleaved-A454)  Specificity This antibody detects endogenous levels of Human,Mouse,Rat Cleaved-NF k B-p52 (A454, protein was cleaved amino acid sequence between 454-455)  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Monoclonal, Mouse,IgG  Purification The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution WB 1:500-2000  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms Nuclear factor NF-kappa-B p100 subunit (DNA-binding factor KBF2;H2TF1;Lymphocyte translocation chromosome 10 protein;Nuclear factor kappa light polypeptide gene enhancer in B-cells 2;Oncogene Lyt-10;Lyt10) (Cleaved into: Nuclear factor NF-kappa-B p52 subunit)  Observed Band 52 105kD  Cell Pathway Nucleus. Cytoplasm. Nuclear, but also found in the cytoplasm in an inactive for complexed to an inhibitor (I-kappa-B).  Tissue Specificity  Function cell activation, adaptive immune response, follicular dendritic cell activation, follicular dendritic cell differentiation, adaptive immune response base on somatic recombination of immune receptors built from immune response, extracellular matrix organization, extracellular structure organization, regulation of transcription, DNA-dependent, immune response, extracellular matrix organization, extracellular structure organization, regulation of transcription, DNA-dependent, immune regonization, extracellular structure organization, extracellular structure	Catalog No	BYmab-00788
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## **Background**

disease: A chromosomal aberration involving NFKB2 is found in a case of B-cell non Hodgkin lymphoma (B-NHL). Translocation t(10;14)(q24;q32) with IGHA1. The resulting oncogene is also called Lyt-10C alpha variant., disease:A chromosomal aberration involving NFKB2 is found in a cutaneous T-cell leukemia (C-TCL) cell line. This rearrangement produces the p80HT gene which encodes for a truncated 80 kDa protein (p80HT)., disease:In B-cell leukemia (B-CLL) cell line, LB40 and EB308, can be found after heterogeneous chromosomal aberrations, such as internal deletions.,domain:The C-terminus of p100 might be involved in cytoplasmic retention, inhibition of DNA-binding by p52 homodimers, and/or transcription activation.,domain:The glycine-rich region (GRR) appears to be a critical elementation of p52.,function:NF-kappa is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processed such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable officity. Different dimer combinations act as transcriptional affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. In a non-canonical activation pathway, the MAP3K14-activated CHUK/IKKA homodimer phosphorylates NFKB2/p100 associated with ReIB, inducing its proteolytic processing to NFKB2/p52 and the formation of NF-kappa-B ReIB-p52 complexes. The NF-kappa-B heterodimeric RelB-p52 complex is a transcriptional activator. The NF-kappa-B p52-p52 homodimer is a transcriptional repressor. NFKB2 appears to have dual functions such as cytoplasmic retention of attached NF-kappa-B proteins by p100 and generation of p52 by a cotranslational processing. The proteasome-mediated process ensures the production of both p52 and p100 and preserves their independent function. p52 binds to the kappa-B consensus sequence 5'-GGRNNYYCC-3', located in the enhancer region of genes involved in immune response and acute phase reactions. p52 and p100 are respectively the minor and major form; the processing of p100 being relatively poor. Isoform p49 is a subunit of the NF-kappa-B protein complex, which stimulates the HIV enhancer in synergy with p65.,PTM:Constitutive processing is tightly suppressed by its C-terminal processing inhibitory domain, named PID, which contains the death domain.,PTM:Subsequent to MAP3K14-dependent spring phosphorylation, p100 polyubiquitination accurs then triggering its serine phosphorylation, p100 polyubiquitination occurs then triggering its proteasome-dependent processing., PTM: While translation occurs, the particular unfolded structure after the GRR repeat promotes the generation of p52 making it an acceptable substrate for the proteasome. This process is known as cotranslational processing. The processed form is active and the unprocessed form acts as an inhibitor (I kappa B-like), being able to form cytosolic complexes with NF-kappa B, trapping it in the cytoplasm. Complete folding of the region downstream of the GRR repeat precludes processing.,similarity:Contains 1 death domain., similarity: Contains 1 RHD (Rel-like) domain., similarity: Contains 7 ANK repeats.,subcellular location:Nuclear, but also found in the cytoplasm in an inactive form complexed to an inhibitor (I-kappa-B).,subunit:Component of the NF-kappa-B RelB-p52 complex. Homodimer; component of the NF-kappa-B p52-p52 complex. Component of the NF-kappa-B p65-p52 complex. Component of the NF-kappa-B p52-c-Rel complex. NFKB2/p52 interacts with NFKBIE. Component of a complex consisting of the NF-kappa-B p50-p50 homodimer and BCL3.,

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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## **Products Images**

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