Nuclear Factor Kappa B2 (NFkappaB2) ELISA Kit for Duck

PRODUCT OVERVIEW

Product Name	Nuclear Factor Kappa B2 (NFkappaB2), ELISA Kit
Full Product Name	Duck Nuclear Factor Kappa B2 ELISA Kit
Product Gene Name	NFkappaB2 elisa kit
Species Reactivity	Duck
Assay Type	Sandwich
Samples	Undiluted original Duck body fluids, tissue homogenates, secretions or feces samples.
Detection Range	62.5pg/ml-2000pg/ml.
Sensitivity	10pg/ml.
Specificity	No significant cross-reactivity or interference between this analyte and analogues is observed.
Preparation and Storage	Store all reagents at 2-8 degree C
Inter-assay Precision	Inter-assay CV (%) is less than 15%. [CV(%) = SD/mean ×100].
Intra-assay Precision	Intra-assay CV (%) is less than 15%.
Molecular Weight	96,749 Da
OMIM	164012
3D Structure	ModBase 3D Structure for Q00653
Related Product Information for NFkappaB2 elisa kit	Background/Introduction: This Quantitative Sandwich ELISA kit is only for in vitro research use only! This kit is intended to be used for determination the level of NFKB2 (hereafter termed "analyte") in undiluted original Duck body fluids, tissue homogenates, secretions or feces samples. This kit is NOT suitable for assaying non-biological sources of substances.
Other Notes	Small volumes of NFkappaB2 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.
Searchable Terms for NFkappaB2 purchase	MBS069070 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Nuclear Factor Kappa B2 (NFkappaB2) 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 NFkappaB2. The ELISA analytical biochemical technique of the MBS069070 kit is based on NFkappaB2 antibody-NFkappaB2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect NFkappaB2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, NFkappaB2. 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(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NFkappaB2. It may not necessarily be applicable to this product.

NCBI GI #	857455
NCBI GeneID	4791
NCBI Accession #	AAA68171.1

UniProt Primary Accession #	Q00653
UniProt Secondary Accession #	Q04860; Q9BU75; Q9H471; Q9H472; A8K9D9; D3DR83
UniProt Related Accession #	Q00653; AAB23437
NCBI Official Full Name	nuclear factor kappa-B2, partial
NCBI Official Synonym Full Names	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)
NCBI Official Symbol	NFKB2
NCBI Official Synonym Symbols	p52; p105; H2TF1; LYT10; CVID10; LYT-10; NF-kB2
UniProt Protein Name	Nuclear factor NF-kappa-B p100 subunit
UniProt Synonym Protein Names	DNA-binding factor KBF2; H2TF1; Lymphocyte translocation chromosome 10 protein; Nuclear factor of kappa light polypeptide gene enhancer in B-cells 2; Oncogene Lyt-10
UniProt Gene Name	NFKB2
UniProt Synonym Gene Names	LYT10; Lyt10
UniProt Entry Name	NFKB2_HUMAN
NCBI Protein Information	nuclear factor NF-kappa-B p100 subunit; oncogene Lyt-10; NFKB, p52/p100 subunit; DNA-binding factor KBF2; transcription factor NFKB2; nuclear factor Kappa-B, subunit 2; lymphocyte translocation chromosome 10 protein; nuclear factor of Kappa light chain gene enhancer in B cells 2
NCBI Summary for NFkappaB2	This gene encodes a subunit of the transcription factor complex nuclear factor-kappa-B (NFkB). The NFkB complex is expressed in numerous cell types and functions as a central activator of genes involved in inflammation and immune function. The protein encoded by this gene can function as both a transcriptional activator or repressor depending on its dimerization partner. The p100 full-length protein is co-translationally processed into a p52 active form. Chromosomal rearrangements and translocations of this locus have been observed in B cell lymphomas, some of which may result in the formation of fusion proteins. There is a pseudogene for this gene on chromosome 18. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]
UniProt Comments for NFkappaB2	NFkB-p100: a transcription factor of the nuclear factor-kappaB (NFkB) group. Precursor of the p52 subunit of the nuclear factor NF-kappa-B, which 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. The precursor protein itself does not bind to DNA. LT-beta receptor agonists and LPS induce NF-kappaB/p100 processing to p52 at the level of the ribosome. 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. Two spliced isoforms have been identified. Isoform p49 is a subunit of the NF-kappa-B protein complex, which stimulates the HIV enhancer in synergy with p65. Protein type: Oncoprotein; DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 10q24 Cellular Component: nucleoplasm; Bcl3/NF-kappaB2 complex; cytoplasm; nucleus; cytosol Molecular Function: protein binding; transcription coactivator activity; chromatin binding; transcription factor activity Biological Process: spleen development; I-kappaB kinase/NF-kappaB cascade; extracellular matrix organization and biogenesis; transcription, DNA-dependent; follicular dendritic cell differentiation; MyD88-independent toll-like receptor signaling pathway; rhythmic process; toll-like receptor 3 signaling pathway; negative regulation of transcription from RNA polymerase II promoter; activation of NF-kappaB transcription factor; toll-like receptor 10 signaling pathway; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; regulation of transcription, DNA-dependent; response to cytokine stimulus; positive regulation of interferon type I production; germinal center formation; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; inflammatory response; toll-like receptor 4 signaling pathway Disease: Immunodeficiency, Common Variable, 10

Research Articles on NFkappaB2	**1.** NF-kappaB2/p100 deficiency caused a predominant B-cell-intrinsic TI-2 defect that could largely be attributed to impaired proliferation of plasmablasts. Importantly, p100 was also necessary for efficient defense against clinically relevant TI-2 pathogens.
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