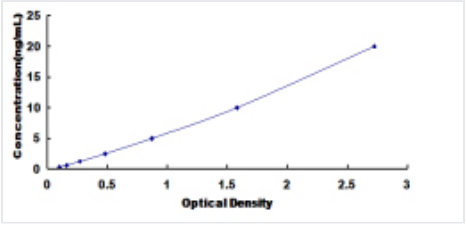
Nuclear Factor Kappa B2 (NFkB2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Nuclear Factor Kappa B2 (NFkB2), ELISA Kit
Full Product Name	Human Nuclear Factor Kappa B2 (NFkB2) ELISA Kit
Product Gene Name	NFkB2 elisa kit
Product Synonym Names	LYT-10; H2TF1; Lymphocyte translocation chromosome 10; Nuclear Factor Of Kappa Light Polypeptide Gene Enhancer In B-Cells 2(p49/P100); Nuclear factor NF-kappa-B p52
Species Reactivity	Human
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.126ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Nuclear Factor Kappa B2 (NFkB2). No significant cross-reactivity or interference between Nuclear Factor Kappa B2 (NFkB2) and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Molecular Weight	96,678 Da
OMIM	164012
3D Structure	ModBase 3D Structure for Q00653
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Nuclear Factor Kappa B2 (NFkB2) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Nuclear Factor Kappa B2 (NFkB2) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Product Categories/Family for NFkB2 elisa kit	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.

Related Product Information for NFkB2 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Nuclear Factor Kappa B2 (NFkB2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Nuclear Factor Kappa B2 (NFkB2). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Nuclear Factor Kappa B2 (NFkB2), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Nuclear Factor Kappa B2 (NFkB2) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of NFkB2 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 NFkB2 purchase	MBS2022221 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Nuclear Factor Kappa B2 (NFkB2) 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 NFkB2. The ELISA analytical biochemical technique of the MBS2022221 kit is based on NFkB2 antibody-NFkB2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect NFkB2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, NFkB2. 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(%).



Typical Testing Data/Standard Curve (for reference only) of NFkB2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NFkB2. 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; p100; 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; Lyt10
Protein Family	Nuclear factor
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
NCBI Summary for NFkB2	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 NFkB2	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: DNA-binding; Oncoprotein; Transcription factor Chromosomal Location of Human Ortholog: 10q24 Cellular Component: Bcl3/NF-kappaB2 complex; nucleoplasm; 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; MyD88-independent toll-like receptor signaling pathway; follicular dendritic cell differentiation; rhythmic process; toll-like receptor 3 signaling pathway; negative regulation of transcription from RNA polymerase II promoter; toll-like receptor 2 signaling pathway; activation of NF-kappaB transcription factor; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; regulation of transcription, DNA-dependent; response to cytokine stimulus; germinal center formation; positive regulation of interferon type I production; 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 NFkB2	**1.** Results confirm previous findings that de novo mutations near the C-terminus of NFKB2 cause combined endocrine and immunodeficiencies.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-elisa-kits/nuclear-factor-kappa-b2-nfkb2/2022221