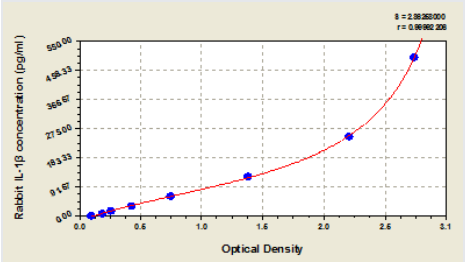
Interleukin 1, Beta (IL1B) ELISA Kit for Rabbit

PRODUCT OVERVIEW

Product Name	interleukin 1, beta (IL1B), ELISA Kit
Full Product Name	Rabbit Interleukin 1beta, IL-1beta ELISA Kit
Product Gene Name	IL1B elisa kit
Product Synonym Names	Rabbit Interleukin 1beta; IL-1beta ELISA Kit; IL-1; IL1-BETA; IL1F2; catabolin; preinterleukin 1 beta; pro-interleukin-1-beta; interleukin 1; beta
Species Reactivity	Rabbit
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, tissue homogenates
Detection Range	7.8 pg/ml-500 pg/ml
Sensitivity	<1.95 pg/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of rabbit IL-1beta. No significant cross-reactivity or interference between rabbit IL-1beta and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	30,665 Da
3D Structure	ModBase 3D Structure for P14628
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IL1B elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for IL-1beta has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any IL-1beta present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for IL-1beta is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of IL-1beta bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of IL1B 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 IL1B purchase	MBS704702 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the interleukin 1, beta (IL1B) 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 IL1B. The ELISA analytical biochemical technique of the MBS704702 kit is based on IL1B antibody-IL1B antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL1B antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL1B. 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 IL1B elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL1B. It may not necessarily be applicable to this product.

NCBI GI #	126723555
NCBI GeneID	100008990
NCBI Accession #	NP_001075670.1
UniProt Primary Accession #	P14628
UniProt Related Accession #	P14628
GenBank Nucleotide #	NM_001082201.1
NCBI Official Full Name	interleukin-1 beta
NCBI Official Symbol	IL1B
NCBI Official Synonym Symbols	IL1-BETA
UniProt Protein Name	Interleukin-1 beta
UniProt Synonym Protein Names	Lymphocyte proliferation-potentiating factor
Protein Family	Interleukin
UniProt Gene Name	IL1B
UniProt Synonym Gene Names	IL-1 beta
UniProt Entry Name	IL1B_RABIT
NCBI Protein Information	interleukin-1 beta; IL-1 beta; interleukin 1 beta; lymphocyte proliferation-potentiating factor
UniProt Comments for IL1B	**Function:** Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.
Research Articles on IL1B	**1.** Mild heat shock increased the production of inflammatory cytokines, IL-1beta and IL-6 in rabbit cornea cells.
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/il1b-rabbit-elisa-kits/interleukin-1-beta/704702