Interleukin-1 Beta (Il-1 Beta) (IL1B) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Interleukin-1 beta (IL-1 beta) (IL1B), Monoclonal Antibody
Full Product Name	Interleukin-1 beta (IL-1 beta) Mouse Monoclonal Antibody [Clone IL1B/465]
Product Gene Name	anti-IL1B antibody
Product Synonym Names	Catabolin; Hematopoietin 1 (H1); IFN beta inducing factor; IL-1 beta; IL1B; IL1F2; Interleukin 1 beta precursor; Interleukin-1 beta; LAF; Osteoclast activating factor (OAF); Preinterleukin 1 beta; Pro interleukin 1 beta
Clonality	Monoclonal
Isotype	Mouse/IgG2b, kappa
Clone Number	IL1B/465
Host	Mouse
Species Reactivity	Human
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0. 05% BSA & 0. 05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Concentration	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (lot specific)
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C Antibody without azide: store at -20 to -80 degree C Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Molecular Weight	Calculated: 30 kDa; Observed: 36 kDa
Chromosome Location	Chromosome: 2; NC_000002.11 (113587337..113594356, complement). Location: 2q14
OMIM	147720
3D Structure	ModBase 3D Structure for P01584
Immunogen	Recombinant full-length human IL1B protein
Cellular Localization	Cytoplasmic & Extracellular (Secreted)
Positive Control	LPS stimulated human peripheral blood mononuclear cells. Human colon or liver tissue.
Hu-chromosome Location	2q14
Unigene	126256
Applications Tested/Suitable for anti-IL1B antibody	ELISA (EIA), Immunofluorescence (IF), Immunohistochemistry-Formalin (IHC-F)
Application Notes for anti-IL1B antibody	ELISA: For coating, order antibody without BSA IF: 1-2ug/ml IHC (Formalin-fixed): 1-2ug/ml for 30 minutes at RT (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH9.0, for 45 minutes at 95 degree C followed by cooling at RT for 20 minutes)

Related Product Information for anti-IL1B antibody	Recognizes a protein of 17-31kDa, identified as interleukin 1beta. It shows no cross-reaction with interleukin 1alpha. Epitopes of MAb IL1B/463 and IL1B/465 are different and provide a good pair for developing an ELISA. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2.
Other Notes	Small volumes of anti-IL1B antibody 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	MBS4382000 is an antibody targeting IL1B. Also known as Interleukin-1 beta (IL-1 beta) Mouse Monoclonal Antibody [Clone IL1B/465]. Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	10835145
NCBI GeneID	3553
NCBI Accession #	NP_000567.1
UniProt Primary Accession #	P01584
UniProt Secondary Accession #	Q53X59; Q53XX2; Q7M4S7; Q7RU01; Q96HE5; Q9UCT6
UniProt Related Accession #	P01584
GenBank Nucleotide #	NM_000576.2
NCBI Official Full Name	interleukin-1 beta proprotein
NCBI Official Synonym Full Names	interleukin 1, beta
NCBI Official Symbol	IL1B
NCBI Official Synonym Symbols	IL-1; IL1F2; IL1-BETA
UniProt Protein Name	Interleukin-1 beta
UniProt Synonym Protein Names	Catabolin
Protein Family	Interleukin
UniProt Gene Name	IL1B
UniProt Synonym Gene Names	IL1F2; IL-1 beta
UniProt Entry Name	IL1B_HUMAN
NCBI Protein Information	interleukin-1 beta; IL-1 beta; catabolin; preinterleukin 1 beta; pro-interleukin-1-beta
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.
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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.

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