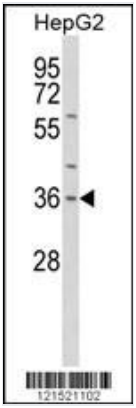
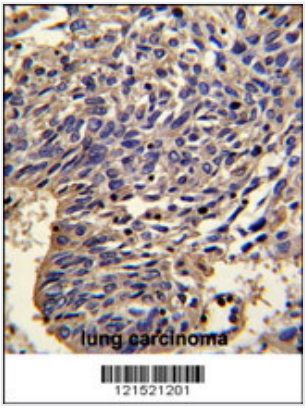
IL1A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

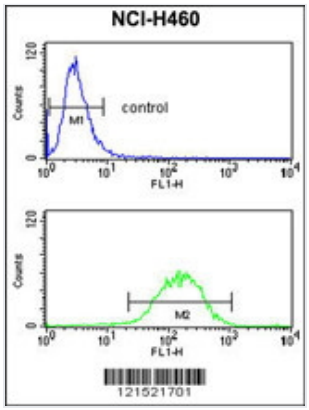
Product Name	IL1A, Polyclonal Antibody
Full Product Name	IL1A, ID (Interleukin-1 alpha, IL-1 alpha, Hematopoietin-1, IL1F1) (Biotin)
Product Gene Name	anti-IL1A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human IL1A.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	14kDa (132aa), confirmed by MALDI-TOF.
OMIM	147760
3D Structure	ModBase 3D Structure for P01583
Immunogen	Synthetic peptide selected from the center region of human IL1A (KLH).
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-IL1A antibody	Antibodies; Interleukin
Applications Tested/Suitable for anti-IL1A antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-IL1A antibody	WB: 1:100-1:500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-IL1A antibody	MBS6482382 is an antibody targeting IL1A. Also known as IL1A, ID (Interleukin-1 alpha, IL-1 alpha, Hematopoietin-1, IL1F1) (Biotin). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-IL1A antibody	1. Cousin, E., et.al., Neurobiol. Aging (2009).
Other Notes	Small volumes of anti-IL1A 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.



Western Blot (WB) of anti-IL1A antibody
Western blot analysis of IL1A Antibody (Center) in HepG2 cell line lysates (35ug/lane). IL1A (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-IL1A antibody
Formalin-fixed and paraffin-embedded human lung carcinoma reacted with IL1A Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-IL1A antibody
IL1A Antibody (Center) flow cytometry analysis of NCI-H460 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL1A. It may not necessarily be applicable to this product.

NCBI GI #	27894330
NCBI GeneID	3552
NCBI Accession #	NP_000566
UniProt Primary Accession #	P01583
UniProt Secondary Accession #	Q53QF9; Q7RU02
UniProt Related Accession #	P01583
GenBank Nucleotide #	NM_000575.4
NCBI Official Full Name	interleukin-1 alpha
NCBI Official Synonym Full Names	interleukin 1 alpha
NCBI Official Symbol	IL1A
NCBI Official Synonym Symbols	IL1; IL-1A; IL1F1; IL1-ALPHA
UniProt Protein Name	Interleukin-1 alpha
UniProt Synonym Protein Names	Hematopoietin-1

Protein Family	Interleukin
UniProt Gene Name	IL1A
UniProt Synonym Gene Names	IL1F1; IL-1 alpha
UniProt Entry Name	IL1A_HUMAN
NCBI Protein Information	interleukin-1 alpha
NCBI Summary for IL1A	The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease. [provided by RefSeq, Jul 2008]
UniProt Comments for IL1A	IL1A: 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. Belongs to the IL-1 family. Protein type: Motility/polarity/chemotaxis; Cytokine Chromosomal Location of Human Ortholog: 2q14 Cellular Component: extracellular space; extracellular region; cytosol Molecular Function: protein binding; interleukin-1 receptor binding; copper ion binding; cytokine activity Biological Process: positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of mitosis; apoptosis; positive regulation of interleukin-2 biosynthetic process; cytokine and chemokine mediated signaling pathway; germ cell programmed cell death; positive regulation of JNK cascade; fever; negative regulation of cell proliferation; cell proliferation; connective tissue replacement during inflammatory response; positive regulation of angiogenesis; response to copper ion; positive regulation of transcription from RNA polymerase II promoter; immune response; inflammatory response; positive regulation of cytokine secretion
Research Articles on IL1A	**1.** In conclusion, the analyzed IL1A -889 C>T, IL1B +3954 C>T, and IL6 -174 G>C polymorphisms may be associated with the occurrence and development of human cytomegalovirus infection among studied patients.
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