

IL1 beta Rabbit Polyclonal Antibody

Catalog No: #54413

Package Size: #54413-1 50ul #54413-2 100ul

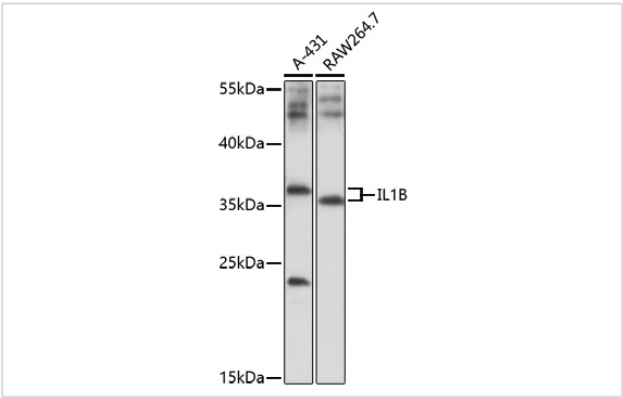
Description

Product Name	IL1 beta Rabbit Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IF
Species Reactivity	Human,Mouse,Rat
Immunogen Description	Recombinant protein of human IL1 beta.
Conjugates	Unconjugated
Other Names	IL-1;IL1-BETA;IL1F2;IL1 beta;IL1B
Accession No.	Swiss Prot:P01584GenelD:3553
Calculated MW	30kDa
SDS-PAGE MW	37kDa
Formulation	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

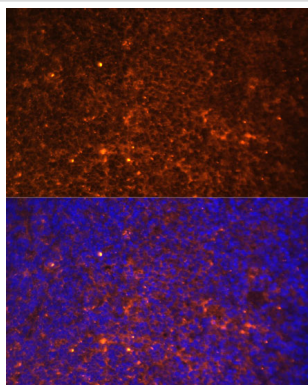
Application Details

WB 1:500 - 1:2000IF 1:50 - 1:100

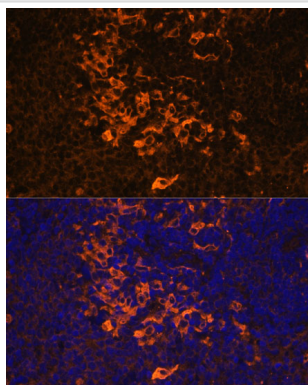
Images



Western blot analysis of extracts of various cells, using IL1 beta at 1:1000 dilution.



Immunofluorescence analysis of mouse spleen using IL1 beta at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of rat spleen using IL1 beta at dilution of 1:100. Blue: DAPI for nuclear staining.

Background

The protein encoded by this gene is a member of the interleukin 1 cytokine family. 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.

Published Papers

Long Zeng;Panyue Liu;Fang Rao;Zhimin Du;Haiyin Xiao;Shenghuan Yu;Chunyu Deng;Mengzhen Zhang;Fangzhou Liu;Rui Zhu;Hai Deng;Shulin Wu;Yumei Xue;Xianhong Fang;Wei Wei et al., p300 upregulates Ikur in atrial cardiomyocytes through activating NLRP3 inflammasome in hypertension., , (2025)

[PMID:39966999](https://pubmed.ncbi.nlm.nih.gov/39966999/)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.