

IL1B Antibody

Catalog No: #32165

Package Size: #32165-1 50ul #32165-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

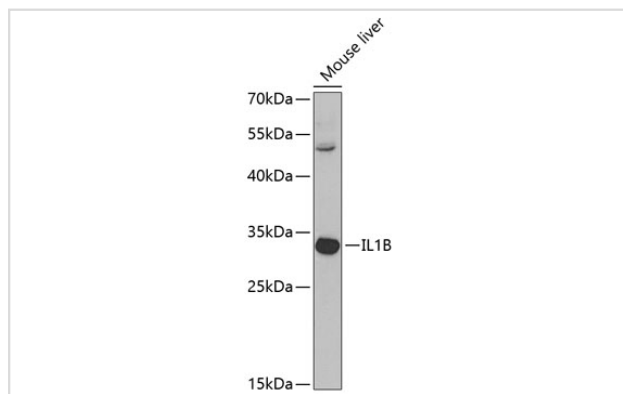
Description

Product Name	IL1B Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total IL1B protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human IL1B.
Conjugates	Unconjugated
Target Name	IL1B
Other Names	IL1B; IL-1; IL1-BETA; IL1F2; IL1beta
Accession No.	Swiss-Prot:P01584NCBI Gene ID:3553
SDS-PAGE MW	31KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

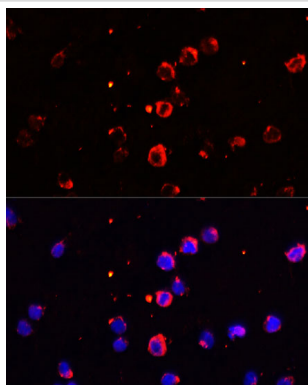
Application Details

WB□1:500 - 1:2000IF□1:50 - 1:200

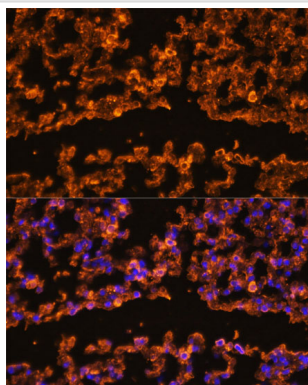
Images



Western blot analysis of extracts of mouse liver, using IL1 beta antibody at 1:1000 dilution.



Immunofluorescence analysis of THP-1 cells using IL1 beta Polyclonal antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of mouse lung using IL1 beta Polyclonal antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Background

The 20S proteasome is the major proteolytic enzyme complex involved in intracellular protein degradation. PA700, PA28, and PA200 are three major protein Interleukin-1beta (IL-1beta), one of the major caspase-1 targets, is a multifunctional cytokine that is involved in a host of immune and proinflammatory responses (1). It is produced primarily by activated monocytes and macrophages. It signals through various adaptor proteins and kinases that lead to activation of numerous downstream targets (2-6). Human IL-1beta is synthesized as a 31 kDa precursor. To gain activity, the precursor must be cleaved by caspase-1 between Asp116 and Ala117 to yield a 17 kDa mature form (7,8). Detection of the 17 kDa mature form of IL-1beta is a good indicator of caspase-1 activity.

Published Papers

Wang Ziheng;Lu Zhichao;Chen Yixun;Wang Chenxing;Gong Peipei;Jiang Rui;Liu Qianqian et al., Targeting the AKT-P53/CREB pathway with epicatechin for improved prognosis of traumatic brain injury, , (2023)

PMID:

Mustafa Khamis;Han Ying;He Dan;Wang Ying;Niu Nan;Jose Pedro A.;Jiang Yinong;Kopp Jeffrey B.;Lee Hewang;Qu Peng et al., Poly-(ADP-ribose) polymerases inhibition by olaparib attenuates activities of the NLRP3 inflammasome and of NF-kB in THP-1 monocytes, , (2024)

PMID:

Sijing Liu;Kai Li;Changhai Long;Mingwu Lao;Biao Ma;Changquan Liu;Haoyuan He;Chunjiang Wang;Wangzhu Chen;Bin Yu et al., The role of FTO in m6A RNA methylation and immune regulation in Staphylococcus aureus infection-related osteomyelitis., , (2025)

PMID:39980685

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