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Datasheet for ABIN652470

anti-IL-1 beta antibody (AA 148-174)

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Overview

Quantity:	400 µL
Target:	IL-1 beta (IL1B)
Binding Specificity:	AA 148-174
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IL-1 beta antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This IL1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 148-174 amino acids of human IL1B.
Clone:	RB21917
Isotype:	IgG
Predicted Reactivity:	Pr, Rb
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	IL-1 beta (IL1B)
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Target Details

Alternative Name:	IL1B (IL1B Products)
Background:	IL1B 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.
Molecular Weight:	30748
Gene ID:	3553
NCBI Accession:	NP_000567
UniProt:	P01584
Pathways:	NF-kappaB Signaling , Interferon-gamma Pathway , TLR Signaling , Negative Regulation of Hormone Secretion , Cellular Response to Molecule of Bacterial Origin , Carbohydrate Homeostasis , Glycosaminoglycan Metabolic Process , Myometrial Relaxation and Contraction , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Autophagy , Cancer Immune Checkpoints , Inflammasome

Application Details

Application Notes:	WB: 1:2000. WB: 1:1000. IHC-P: 1:10~50. FC: 1:25
Restrictions:	For Research Use only

Handling

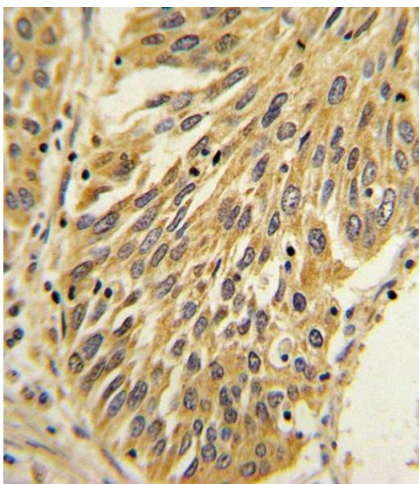
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months

Publications

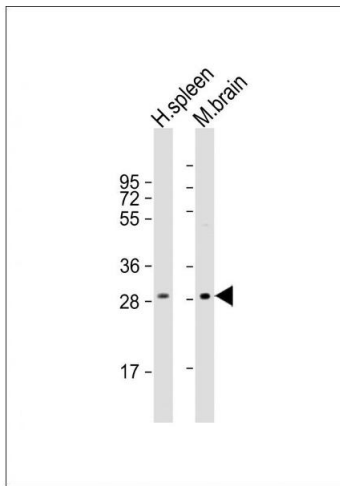
- Product cited in: Abdul-Muneer, Alikunju, Mishra, Schuetz, Szlachetka, Burnham, Haorah: "Activation of NLRP3 inflammasome by cholesterol crystals in alcohol consumption induces atherosclerotic lesions." in: **Brain, behavior, and immunity**, Vol. 62, pp. 291-305, (2018) ([PubMed](#)).
- Liu, Wen, Chen, Wang, Huang, Tu: "Effects of Berberine on NLRP3 and IL-1 β Expressions in Monocytic THP-1 Cells with Monosodium Urate Crystals-Induced Inflammation." in: **BioMed research international**, Vol. 2016, pp. 2503703, (2016) ([PubMed](#)).
- Zhang, Liu, Huang, Su, Zhang, Wang, Li: "NF- κ B activation and cell death after intracerebral hemorrhage in patients." in: **Neurological sciences : official journal of the Italian Neurological Society and of the Italian Society of Clinical Neurophysiology**, Vol. 35, Issue 7, pp. 1097-102, (2014) ([PubMed](#)).
- Liu, Tu, Chen, Wang, Hu, Dong: "Effects of Modified Simiao Decoction on IL-1 β and TNF α Secretion in Monocytic THP-1 Cells with Monosodium Urate Crystals-Induced Inflammation." in: **Evidence-based complementary and alternative medicine : eCAM**, Vol. 2014, pp. 406816, (2014) ([PubMed](#)).

Images



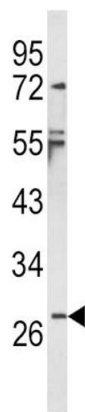
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human lung carcinoma with IL1B 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.



Western Blotting

Image 2. All lanes : Anti-IL1B Antibody (Center) at 1:2000 dilution Lane 1: human spleen lysate Lane 2: mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Western Blotting

Image 3. Western blot analysis of IL1B Antibody (Center) (ABIN652470 and ABIN2842321) in NCI- cell line lysates (35 µg/lane). IL1B (arrow) was detected using the purified Pab.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN652470.