

Datasheet for MDB728503 anti-IL-1 beta antibody (AA 101-200)

8 Images

16 Publications



[Go to Product page](#)

Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | IL-1 beta (IL1B) |
| Binding Specificity: | AA 101-200 |
| Reactivity: | Human, Mouse, Rat, Cow, Pig, Rabbit |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This IL-1 beta antibody is un-conjugated |
| Application: | Dot Blot (DB), ELISA, Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Western Blotting (WB) |

Product Details

| | |
|-----------------------|--|
| Immunogen: | KLH conjugated synthetic peptide derived from human IL-1beta |
| Isotype: | IgG |
| Specificity: | Predicted to work with Mouse and Rat samples, but with lower affinity. |
| Predicted Reactivity: | Dog, Guinea Pig |
| Purification: | Purified by Protein A. |

Target Details

| | |
|---------|------------------|
| Target: | IL-1 beta (IL1B) |
|---------|------------------|

Target Details

Alternative Name: IL-1 beta ([IL1B Products](#))

Background: 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.

Subcellular location: Secreted

Synonyms: IL-1, IL1F2, IL1-BETA, Interleukin-1 beta, IL-1 beta, Catabolin, IL1B

Gene ID: 3553

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 1:300-5000
ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200
dot-blot()

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

Handling

handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

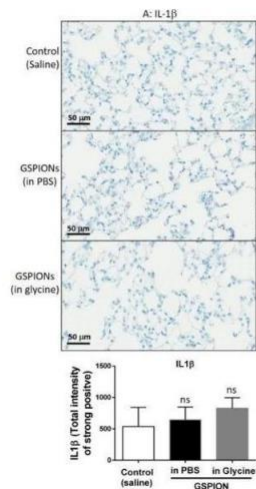
Product cited in: Chakraborty, Royce, Selomulya, Plebanski: "A novel Approach for Non-Invasive Lung Imaging and Targeting Lung Immune Cells." in: **International journal of molecular sciences**, Vol. 21, Issue 5, (2020) ([PubMed](#)).

Ding, Ren, Yu, Yu, Zhou: "Porphyromonas gingivalis, a periodontitis causing bacterium, induces memory impairment and age-dependent neuroinflammation in mice." in: **Immunity & ageing : I & A**, Vol. 15, pp. 6, (2018) ([PubMed](#)).

Liu, Li, Weng: "Effect of BTXA on Inhibiting Hypertrophic Scar Formation in a Rabbit Ear Model." in: **Aesthetic plastic surgery**, Vol. 41, Issue 3, pp. 721-728, (2017) ([PubMed](#)).

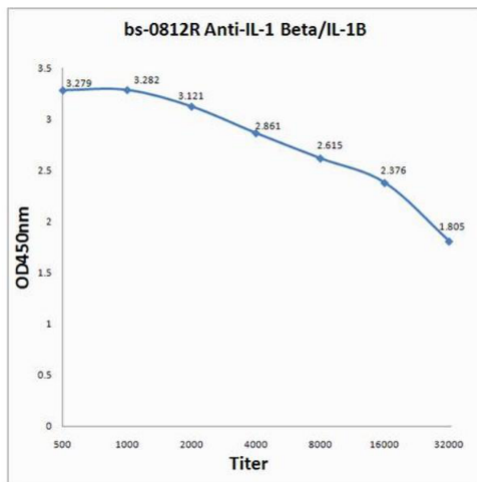
Liu, Cao, Li, Wang, Zhang, Dong Zhang, Liu, Yuan, Zhan: "Autophagy induced by DAMPs facilitates the inflammation response in lungs undergoing ischemia-reperfusion injury through promoting TRAF6 ubiquitination." in: **Cell death and differentiation**, Vol. 24, Issue 4, pp. 683-693, (2017) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



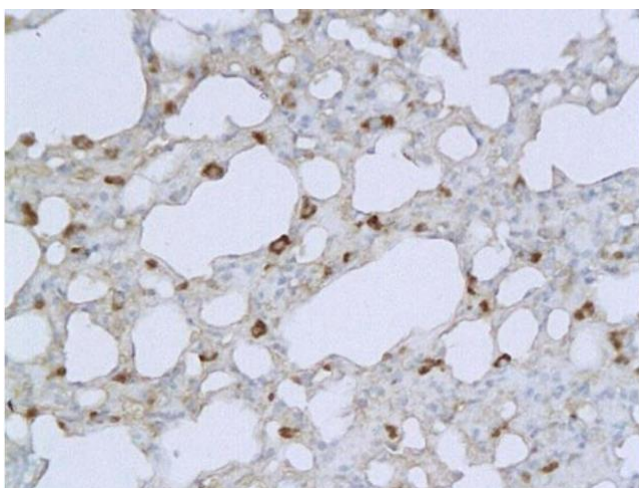
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. GSPIONs do not increase expression of pro-inflammatory cytokines in lung parenchyma. In comparison to control (saline), expression of pro-inflammatory cytokines, (A). IL-1 β , (B). IL-6 and (C). TNF, was unchanged along with negligible damage in the lung parenchyma. Scale bars represent 50 μ m. N = 6 mice/group, Mean \pm SEM. A one-way ANOVA was used to determine the significance in between different groups. Each group was quantified for strong positive expression by analyzing 10 sections/lung/group. ns, non-significant. - figure provided by CiteAb. Source: PMID32120819



ELISA

Image 2. Antigen: 2 μ g/100 μ L Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Rabbit Anti-Goat IgG at 1: 5000; TMB staining Read the data in Microplate Reader by 450nm.



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded mouse lung labeled with (MDB728503) Rabbit Anti-IL-1 Beta/IL-1B Polyclonal Antibody, Unconjugated followed by conjugation to the secondary antibody and DAB staining.

Please check the [product details page](#) for more images. Overall 8 images are available for MDB728503.