Datasheet for ABIN728503

anti-IL-1 beta antibody (AA 101-200)

8 Images | 16 Publications

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Overview

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

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.
Cross-Reactivity:	Cow, Human, Mouse, Pig, Rabbit, Rat
Predicted Reactivity:	Dog,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	IL-1 beta (IL1B)
Alternative Name:	IL-1 beta (IL1B Products)
Background:	Synonyms: IL-1, IL1F2, IL1-BETA, Interleukin-1 beta, IL-1 beta, Catabolin, IL1B 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.
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, 0.02 % Proclin300 and 50 % Glycerol.

Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

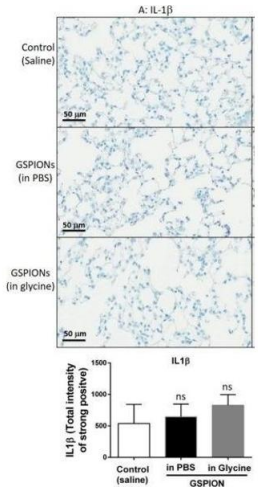
Chakraborty, Royce, Selomulya, Plebanski: "A novel Approach for Non-Invasive Lung Imaging and Targeting Lung Immune Cells." in: **International journal of molecular sciences**, Vol. 21, Issue 5, (2020) (PubMed).

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).

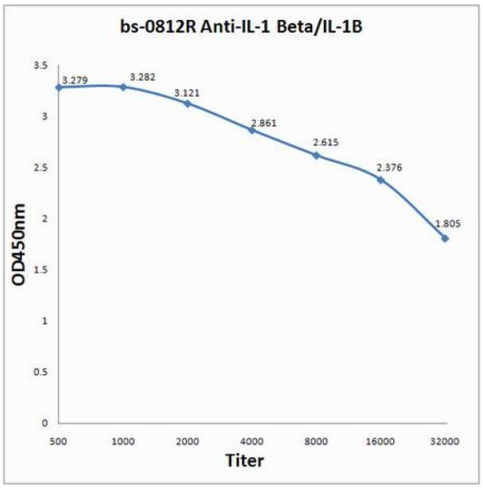
Liu, Cao, Li, Wang, Zhang, Dong Zhang, Liu, Yuan, Zhan: "Autophagy induced by DAMPs facilitates the inflammation response in lungs undergoing ischemia-reperfusion injury through promoting TRAF6 ubiquitination." in: **Cell death and differentiation**, Vol. 24, Issue 4, pp. 683-693, (2017) (PubMed).

There are more publications referencing this product on: Product page



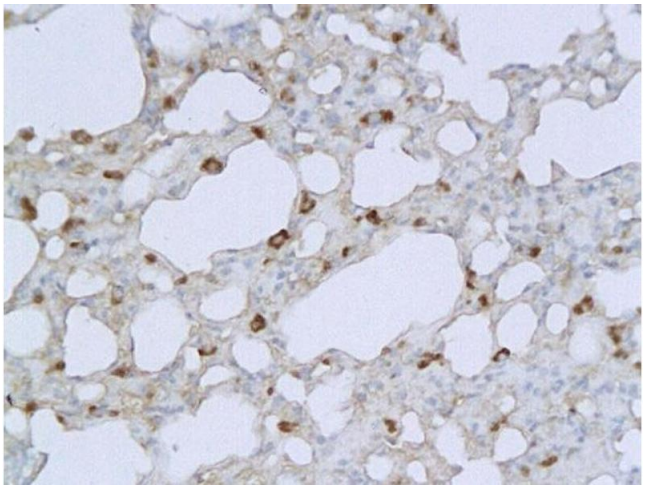
Immunohistochemistry (Paraffin-embedded Sections)

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-1β, (B). IL-6 and (C). TNF, was unchanged along with negligible damage in the lung parenchyma. Scale bars represent 50 µm. N = 6 mice/group, Mean ± 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 µg/100 µL 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 (ABIN728503) 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 ABIN728503.