Biotin Conjugated Anti-Rat IL-1 beta Antibody [PS01-87] - Detector

HA721611



Species reactivity: Rat

Applications: ELISA(Det), ELISA

Clone number: PS01-87

Description: Potent pro-inflammatory cytokine. Initially discovered as the major endogenous pyrogen,

induces prostaglandin synthesis, neutrophil influx and activation, T-cell activation and cytokine production, B-cell activation and antibody production, and fibroblast proliferation and collagen production. Promotes Th17 differentiation of T-cells. Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells. Plays a role in angiogenesis by inducing VEGF production synergistically with TNF and IL6. Involved in transduction of inflammation downstream of pyroptosis: its mature form is specifically released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore. IL1B production occurs in 2 steps, each being controlled by different stimuli. First, inflammatory signals, such as LPS, stimulate the synthesis and promote the accumulation of cytosolic stores of pro-IL1B (priming). Then additional signals are required for inflammasome assembly, leading to CASP1 activation, pro-IL1B processing and eventually secretion of the active cytokine. IL1B processing and secretion are temporarily associated.

Conjugate: Biotin-conjugated

Immunogen: Recombinant protein within rat IL-1 beta aa 117-268 (HA210708).

Positive control: Recombinant Rat IL-1 beta protein (HA210708).

Subcellular location: Cytoplasm, Lysosome, Secreted.

Database links: SwissProt: Q63264 Rat

Entrez Gene: 24494 Rat Unigene: 9869 Rat

Recommended Dilutions:

ELISA

ELISA(Det)

Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit

monoclonal [PS01-86] to Rat IL-1 beta antibody (Capture) (HA721609) and Recombinant

Rat IL-1 beta protein (HA210708) as the standard.

Use at an assay dependent concentration.

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% ProClin300.

Storage Instruction: Store at $+4^{\circ}$ C after thawing. Aliquot store at -20° C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Images

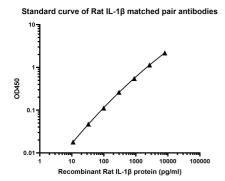


Fig1: Sandwich ELISA analysis of Rat IL-1 beta matched pair antibodies

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. Tominaga K., Yoshimoto T., Torigoe K., Kurimoto M., Matsui K., Hada T., Okamura H., Nakanishi K. IL-12 synergizes with IL-18 or IL-1beta for IFN-gamma production from human T cells. Int. Immunol. 12:151-160 (2000)
- 2. LaRock C.N., Todd J., LaRock D.L., Olson J., O'Donoghue A.J., Robertson A.A., Cooper M.A., Hoffman H.M., Nizet V. IL-1beta is an innate immune sensor of microbial proteolysis. Sci. Immunol. 1:0-0 (2016)