

Biotin Conjugated Anti-Human IL-1 beta Antibody [PS00-82]

HA722649B



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det)
Molecular Wt:	Predicted band size: 31 kDa
Clone number:	PS00-82

Description: Interleukin-1 beta (IL-1 β) also known as leukocytic pyrogen, leukocytic endogenous mediator, mononuclear cell factor, lymphocyte activating factor and other names, is a cytokine protein that in humans is encoded by the IL1B gene. There are two genes for interleukin-1 (IL-1): IL-1 alpha and IL-1 beta (this gene). IL-1 β precursor is cleaved by cytosolic caspase 1 (interleukin 1 beta convertase) to form mature IL-1 β . Increased production of IL-1 β causes a number of different autoinflammatory syndromes, most notably the monogenic conditions referred to as Cryopyrin-Associated Periodic Syndromes (CAPS), due to mutations in the inflammasome receptor NLRP3 which triggers processing of IL-1B. Intestinal dysbiosis has been observed to induce osteomyelitis through a IL-1 β dependent manner. The presence of IL-1 β has been also found in patients with multiple sclerosis (a chronic autoimmune disease of the central nervous system). However, it is not known exactly which cells produce IL-1 β . Treatment of multiple sclerosis with glatiramer acetate or natalizumab has also been shown to reduce the presence of IL-1 β or its receptor.

Conjugate: Biotin-conjugated

Immunogen: Recombinant protein within full length human IL-1 beta.

Positive control: Recombinant IL-1 beta protein

Subcellular location: Cytoplasm, Lysosome, Secreted

Database links: SwissProt: P01584 Human

Recommended Dilutions:

ELISA (Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PS01-39] to IL-1 beta (Capture) (HA721278).

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

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

No Images

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

Background References

1. Qiao J et al. Autologous platelet rich plasma injection can be effective in the management of osteoarthritis of the knee: impact on IL-1 beta, TNF-alpha, hs-CRP. J Orthop Surg Res. 2024 Oct
2. Vicens-Artés S et al. Effect of MP-AzeFlu in IL-1 beta-induced IL-6 and proinflammatory cytokines. Immunol Res. 2023 Jun

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