

Anti-Human IL-1 beta Antibody [PS01-39]

HA721712



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 31 kDa
Clone number:	PS01-39

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.[18]

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

Positive control: THP-1 treated with 80nM TPA overnight then treated with 100ng/mL LPS for 6 hours and 300ng/mL BFA for 3 hours whole cell lysate.

Subcellular location: Cytoplasm, Lysosome, Secreted

Database links: SwissProt: P01584 Human

Recommended Dilutions:

WB 1:1,000

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

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

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

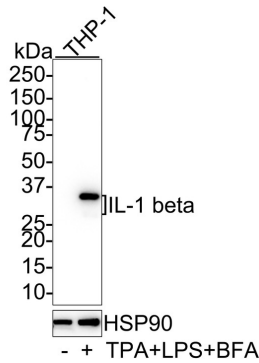
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Images

Fig1: Western blot analysis of Human IL-1 beta on different lysates with Rabbit anti-Human IL-1 beta antibody (HA721712) at 1/1,000 dilution.

Lane 1: THP-1 whole cell lysate

Lane 2: THP-1 treated with 80nM TPA overnight then treated with 100ng/mL LPS for 6 hours and 300ng/mL BFA for 3 hours whole cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 31 kDa

Observed band size: 31/28 kDa

Exposure time: 25 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721712) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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

Background References

1. Milosevic V, et al. (January 2020). "Wnt/IL-1 β /IL-8 autocrine circuitries control chemoresistance in mesothelioma initiating cells by inducing ABCB5". *Int. J. Cancer*. 146 (1): 192–207.
2. Roy D, Sarkar S, Felty Q (January 2006). "Levels of IL-1 beta control stimulatory/inhibitory growth of cancer cells". *Frontiers in Bioscience*. 11: 889–98.

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