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12-9112: Recombinant anti-human-IL-1 beta Antibody (Canakinumab Biosimilar)

Clonality :	Monoclonal
Application :	Functional Assay,ELISA,ICC/IF,FACS
Reactivity :	Human
Gene :	IL1B
Gene ID :	3553
Uniprot ID :	P01584
Format :	Purified
Alternative Name :	Interleukin-1 beta, Catabolin
Isotype :	human IgG1

Description

Target: IL-1 Beta
Generic name: Canakinumab
Product Origin: Recombinant in Human cells

Canakinumab is a recombinant, human anti-human-IL-1β monoclonal antibody that belongs to the IgG1/κ isotype subclass with a molecular mass of 145157 Daltons when deglycosylated. Canakinumab binds to human IL-1β and neutralizes its inflammatory activity by blocking its interaction with IL-1 receptors, but it does not bind IL-1alpha or IL-1 receptor antagonist (IL-1ra).

References:

1. Church LD, McDermott MF: Canakinumab, a fully-human mAb against IL-1beta for the potential treatment of inflammatory disorders. Curr Opin Mol Ther. 2009 Feb;11(1):81-89.

2. Lachmann HJ, et al.: Use of canakinumab in the cryopyrin-associated periodic syndrome. N Engl J Med. 2009 Jun 4;360(23):2416-25. doi:10.1056/NEJMoa0810787

Product Info

Amount :	100 µg
Purification :	Purified from cell culture supernatant by affinity chromatography
Content :	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Not Sterile
Storage condition :	Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Specificity: Human IL1 beta. Does not cross react with other members of the interleukin-1 family.

Inquire for more than 1 mg quantities.

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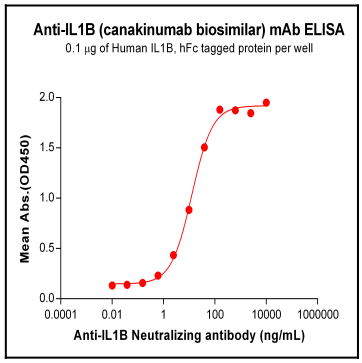

Figure 1. ELISA plate pre-coated by 1μg/mL (100 μL/well) Human IL1B Protein, hFc Tag (Abeomics 32-17198) can bind Anti-IL1B Neutralizing antibody (Abeomics 12-9112) in a linear range of 0.61-156.25 ng/mL.

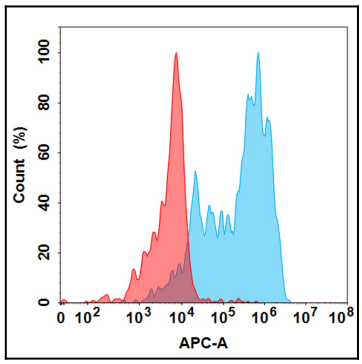

Figure 2. Flow cytometry analysis with 1μg/mL Anti-IL1B (canakinumab biosimilar) mAb (Abeomics 12-9112) on Expi293 cells transfected with Human IL1B protein (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

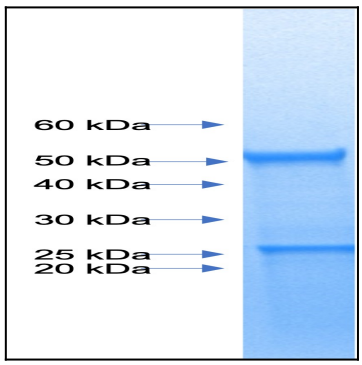

Fig. 3: Coomassie staining of SDS-PAGE gel loaded with Anti-IL-1beta (Canakinumab biosimilar) mAb.