

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

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

### Description

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

Canakinumab is a recombinant, human anti-human-IL-1 $\beta$  monoclonal antibody that belongs to the IgG1/ $\kappa$  isotype subclass with a molecular mass of 145157 Daltons when deglycosylated. Canakinumab binds to human IL-1 $\beta$  and neutralizes its inflammatory activity by blocking its interaction with IL-1 receptors, but it does not bind IL-1 $\alpha$  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

<b>Amount :</b>	100 $\mu$ g
<b>Purification :</b>	Purified from cell culture supernatant by affinity chromatography
<b>Content :</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Not Sterile
<b>Storage condition :</b>	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.

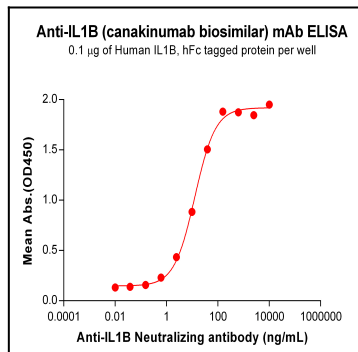


Figure 1. ELISA plate pre-coated by 1µg/mL (100 µL/well) Human IL1B Protein, hFc Tag (Abeomics 32-17198) can bind Anti-IL1B Neutralizing antibody (Abeomics 12-9112) in a linear range of 0.61-156.25 ng/mL.

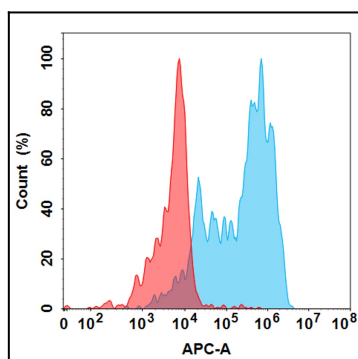


Figure 2. Flow cytometry analysis with 1µg/mL Anti-IL1B (canakinumab biosimilar) mAb (Abeomics 12-9112) on Expi293 cells transfected with Human IL1B protein (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

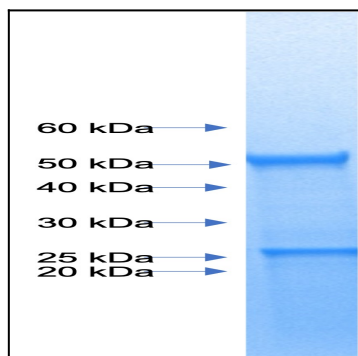


Fig. 3: Coomassie staining of SDS-PAGE gel loaded with Anti-IL-1beta (Canakinumab biosimilar) mAb.