

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

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|---------------------------|------------------------------------|
| 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-1 β monoclonal antibody that belongs to the IgG1/ κ isotype subclass with a molecular mass of 145157 Daltons when deglycosylated. Canakinumab binds to human IL-1 β 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 μ g |
| 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.

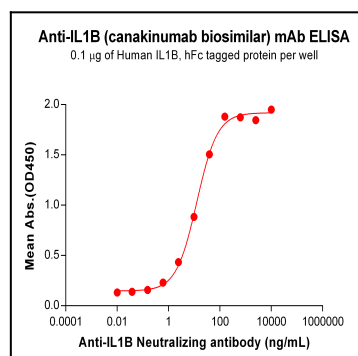


Figure 1. ELISA plate pre-coated by 1 µg/mL (100 µL/well) Human IL1B Protein, hFc Tag (Abeomics 32-17198) can bind Anti-IL1B Neutralizing antibody (Abeomics 12-9112) in a linear range of 0.61–156.25 ng/mL.

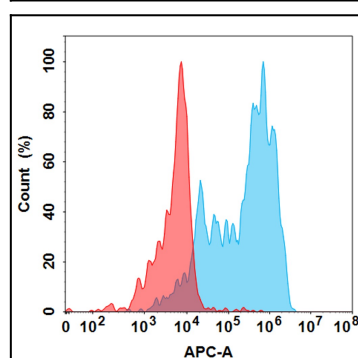


Figure 2. Flow cytometry analysis with 1 µg/mL Anti-IL1B (canakinumab biosimilar) mAb (Abeomics 12-9112) on Expi293 cells transfected with Human IL1B protein (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

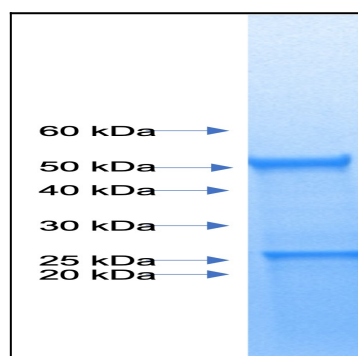


Fig. 3: Coomassie staining of SDS-PAGE gel loaded with Anti-IL-1beta (Canakinumab biosimilar) mAb.