

## IL1B

### Human anti-IL-1 beta (Canakinumab) mAb

<b>Catalog No.</b>	CSB108A CSB108B	<b>Quantity:</b>	200 µg 1.0 mg
<b>Alternate Names:</b>	ACZ885, Ilaris		
<b>Description:</b>	<p>Canakinumab is a recombinant, human anti-human-IL-1<math>\beta</math> monoclonal antibody that belongs to the IgG1/k isotype subclass. It is expressed in a murine Sp2/0-Ag14 cell line and comprised of two 447- (or 448-) residue heavy chains and two 214-residue light chains, with a molecular mass of 145157 Daltons when deglycosylated. Both heavy chains of canakinumab contain oligosaccharide chains linked to the protein backbone at asparagine 298 (Asn 298). Canakinumab binds to human IL-1<math>\beta</math> and neutralizes its inflammatory activity by blocking its interaction with IL-1 receptors, but it does not bind IL-1<math>\alpha</math> or IL-1 receptor antagonist (IL-1ra). Canakinumab is marketed under the brand name Ilaris and indicated for patients 4 years of age and older to treat Familial Cold Autoinflammatory Syndrome (FCAS) and Muckle-Wells Syndrome (MWS), which are both part of the Cryopyrin-Associated Periodic Syndromes (CAPS) as well as for patients 2 years of age and older to treat systemic juvenile idiopathic arthritis (SJIA). Clinical trials have established the administration of canakinumab every 2 weeks to be safe and effective, offering a considerable advantage over the existing treatment with the human IL-1 receptor antagonist, anakinra, which must be injected daily and which is often poorly tolerated by patients.</p>		
<b>Concentration:</b>	1.0 mg/ml		
<b>UniProt ID (target):</b>	P01584		
<b>Source:</b>	CHO cell line		
<b>Isotype:</b>	Human IgG1 kappa		
<b>INN:</b>	Canakinumab		
<b>Specificity:</b>	Human IL-1 beta		
<b>Biologic Activity:</b>	Neutralizing		
<b>Formulation:</b>	PBS, pH 7.5		
<b>Purity:</b>	> 95% as determined by SDS-PAGE		
<b>Reactivity:</b>	Human		
<b>Applications:</b>	Functional studies, ELISA		
<b>Storage &amp; Stability:</b>	<p>Recommended storage, undiluted at 2-8°C for up to 1 week, or in working aliquots at -20°C to -80°C for up to 1 year. <b>Avoid freeze/thaw cycles.</b></p>		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



**Cell Sciences®**  
65 Parker Street  
Unit 11  
Newburyport, MA 01950

Toll Free: 888-769-1246  
Phone: 978-572-1070  
Fax: 978-992-0298

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)