

Recombinant mouse IL-6 protein (Active) ab238300

2 Images

Description

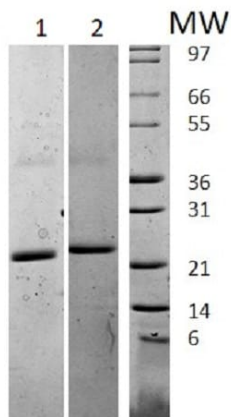
Product name	Recombinant mouse IL-6 protein (Active)		
Biological activity	B9 cell proliferation $ED_{50} \leq 50$ pg/mL ( $\geq 2.0 \times 10^7$ units/mg). 7TD1 cell proliferation (Typical $ED_{50}$ is $< 1$ ng/mL).		
Purity	$> 95$ % SDS-PAGE.		
Endotoxin level	$\leq 1.000$ Eu/ $\mu$ g		
Expression system	Escherichia coli		
Accession	<b><u>P08505</u></b>		
Protein length	Full length protein		
Animal free	Yes		
Nature	Recombinant		
Species	Mouse		
Sequence	MFPTSQVRRGDFTEDTPNRPVYTTSQVGGLITHVLWEIV EMRKELCNGN SDCMNNDALAENNLKLPEIQRNDGCYQTGYNQEICLLKIS SGLLEYHSY LEYMKNNLKDNNKDKARVLQRDTETLIHFNQEVKDLHKIV LPTPISNAL LTDKLESQKEWLRTKTIQFILKSLEEFKVTLRSTRQT		
Predicted molecular weight	22 kDa		
Amino acids	25 to 211		
Additional sequence information	Full length mature chain without signal peptide. Source: Genetically modified E.coli.		

Specifications

Our <b>Abpromise guarantee</b> covers the use of <b>ab238300</b> in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
Applications	Functional Studies SDS-PAGE
Form	Lyophilized

<b>Additional notes</b>	<p>12 months from date of receipt when stored at -20°C to -80°C as supplied.</p> <p>1 month when stored at 4°C after reconstituting as directed.</p> <p>3 months when stored at -20°C to -80°C after reconstituting as directed.</p>
<b>Preparation and Storage</b>	
<b>Stability and Storage</b>	<p>Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.</p> <p>Constituent: 0.1% Trifluoroacetic acid</p> <p>Lyophilized from a sterile (0.2 micron) filtered aqueous solution</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
<b>Reconstitution</b>	<p>Sterile 10 mM HCl at 0.1 mg/mL. Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws.</p>
<b>General Info</b>	
<b>Function</b>	<p>Cytokine with a wide variety of biological functions. It is a potent inducer of the acute phase response. Plays an essential role in the final differentiation of B-cells into Ig-secreting cells. Involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation. Acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. Also acts as a myokine. It is discharged into the bloodstream after muscle contraction and acts to increase the breakdown of fats and to improve insulin resistance.</p>
<b>Involvement in disease</b>	<p>Genetic variations in IL6 are associated with susceptibility to rheumatoid arthritis systemic juvenile (RASJ) [MIM:604302]. An inflammatory articular disorder with systemic-onset beginning before the age of 16. It represents a subgroup of juvenile arthritis associated with severe extraarticular features and occasionally fatal complications. During active phases of the disorder, patients display a typical daily spiking fever, an evanescent macular rash, lymphadenopathy, hepatosplenomegaly, serositis, myalgia and arthritis.</p> <p>Note=A IL6 promoter polymorphism is associated with a lifetime risk of development of Kaposi sarcoma in HIV-infected men.</p>
<b>Sequence similarities</b>	Belongs to the IL-6 superfamily.
<b>Post-translational modifications</b>	N- and O-glycosylated.
<b>Cellular localization</b>	Secreted.

## Images



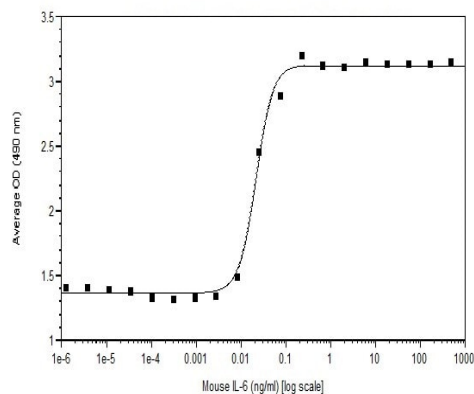
SDS-PAGE - Recombinant mouse IL-6 protein  
(Active) (ab238300)

Recombinant mouse IL6 protein (Active) (ab238300) used at 1 µg.

4-20% Tris-Glycine gel, stained with Coomassie Blue.

**Lane 1:** Non-reducing conditions.

**Lane 2:** Reducing conditions.



Functional Studies - Recombinant mouse IL-6  
protein (Active) (ab238300)

B9 cell proliferation  $ED_{50} \leq 50 \text{ pg/mL}$  ( $\geq 2.0 \times 10^7 \text{ units/mg}$ ).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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