

Anti-IL-6 Antibody

Catalog Number: A00102-3

About IL6

Anti-IL-6 Antibody recognizes human IL-6 that is a secreted cytokine with a wide variety of biological functions. IL-6 is a potent inducer of the acute phase response and plays an essential role in the final differentiation of B-cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation. IL-6 induces myeloma and plasmacytoma growth and induces nerve cells differentiation and acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. IL-6 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. [Anti-IL6 antibody](#) is ideal for investigators involved in Immunology and Cancer research.

Overview

Product Name	Anti-IL-6 Antibody
Reactive Species	Human
Description	Boster Bio Anti-IL-6 Antibody (Catalog # A00102-3). Tested in Dot blot, WB applications. This antibody reacts with Human.
Application	Dot blot, WB
Clonality	Polyclonal 4HAD6
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	P05231

Technical Details

Immunogen	This whole rabbit serum was prepared by repeated immunizations with recombinant human IL-6 produced in E.coli.
Predicted Reactive Species	Bovine, Goat, Guinea Pig, Hamster, Monkey, Sheep
Cross Reactivity	Detects ~20kDa. Does not cross-react with alphaB-crystallin, betaL-crystallin, ̢H- crystallin, gamma-crystallin, HSP25, HSP27 or HSP47 proteins.
Isotype	Antiserum

Form	Liquid (sterile filtered)
Concentration	80 mg/mL by Refractometry
Purification	Anti-IL-6 antiserum detects recombinant and native IL-6 present in body fluids and cell supernatants in various assays (ie. IL-1 stimulated IL-6 production from fibroblasts). This product has minimal reactivity with mouse IL-6.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA: 1:1,000 - 1:5,000</p> <p>IHC: 1:400 - 1:800</p> <p>IP: 1:400 - 1:800</p> <p>WB: 1:500 - 1:2,000</p> <p>Neutralization: 1:400</p>

Anti-IL-6 Antibody (A00102-3) Images

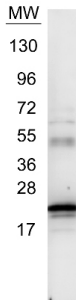


Figure 1. Western blot analysis of IL6 using anti-IL6 antibody (A00102-3).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IL6 antigen affinity purified polyclonal antibody (Catalog # A00102-3) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for IL6.

10 Publications Citing This Product

1. PubMed ID: 24603891, Sun W, Liu Db, Li Ww, Zhang Ll, Long Gx, Wang Jf, Mei Q, Hu Gq. Int J Oncol. 2014 May;44(5):1551-60. Doi: 10.3892/Ijo.2014.2323. Epub 2014 Mar 5. Interleukin-6 Promotes The Migration And Invasion Of Nasopharyngeal Carcinoma Cell Lines And Upregula...
2. PubMed ID: 26990441, Inhibition of Acute Lung Injury by TNFR-Fc through Regulation of an Inflammation-Oxidative Stress Pathway
3. PubMed ID: 27463015, Potential implications of Apolipoprotein E in early brain injury after experimental subarachnoid hemorrhage: Involvement in the modulation of blood-brain barrier integrity

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