

Anti-IL6 Antibody Picoband™

Catalog Number: A00102-2

About IL6

Interleukin-6 (IL-6) is a protein that in humans is encoded by the IL6 gene. IL-6 is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. It is secreted by T cells and macrophages to stimulate immune response to trauma, especially burns or other tissue damage leading to inflammation. IL-6 is one of the most important mediators of fever and of the acute phase response. IL-6 is also essential for hybridoma growth and is found in many supplemental cloning media such as briclone. By in situ hybridization and Southern blot analysis of mouse-human hybrid cell lines, the IL6 gene is mapped to chromosome 7p15.

Overview

Product Name	Anti-IL6 Antibody Picoband™
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-IL6 Antibody Picoband™ catalog # A00102-2. Tested in WB applications. This antibody reacts with Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P20607

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of rat IL6, which shares 87.5% amino acid (aa) sequence identity with mouse IL6.
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
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: Western blot, 0.1-0.5ug/ml</p>

Anti-IL6 Antibody Picoband™ (A00102-2) Images

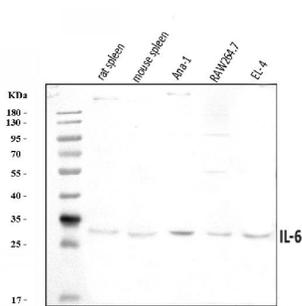


Figure 1. Western blot analysis of IL6 using anti-IL6 antibody (A00102-2).

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 30 ug of sample under reducing conditions.

Lane 1: rat spleen tissue lysates,
Lane 2: mouse spleen tissue lysates,
Lane 3: mouse Ana-1 whole cell lysates,
Lane 4: mouse RAW264.7 whole cell lysates,
Lane 5: mouse EL-4 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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 # A00102-2) 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 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for IL6 at approximately 30 kDa. The expected band size for IL6 is at 24 kDa.

27 Publications Citing This Product

1. PubMed ID: 10.1016/j.bbrc.2020.03.004, Driving GABAergic neurons optogenetically improves learning, reduces amyloid load and enhances autophagy in a mouse model of Alzheimer's disease
2. PubMed ID: 33316740, Tan J, Luo J, Meng C, Jiang N, Cao J, Zhao J. Syringin exerts neuroprotective effects in a rat model of cerebral ischemia through the FOXO3a/NF-kappaB pathway. Int Immunopharmacol.2020 Dec 11;90:107268.doi:10.1016/j.intimp.2020.107268.Epub ahead of print.PMID:333
3. PubMed ID: 28239811, The expression and significance of IL-6, IFN- γ , SM22 α , and MMP-2 in rat model of aortic dissection

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