

Anti-IL23/IL23A Antibody Picoband™

Catalog Number: A01097-1

About IL23A

Interleukin-23 subunit alpha is a protein that in humans is encoded by the IL23A gene. IL-23, also known as Interleukin-23 subunit alphainin (IL23A), is a heterodimeric cytokine consisting of two subunits, one called p40, which is shared with another cytokine, IL-12, and another called p19 (the IL-23 alpha subunit). The International Radiation Hybrid Mapping Consortium mapped the IL-23 gene to chromosome 12. IL-23 is an important part of the inflammatory response against infection. It promotes upregulation of the matrix metalloprotease MMP9, increases angiogenesis and reduces CD8+ T-cell infiltration.

Overview

Product Name	Anti-IL23/IL23A Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-IL23/IL23A Antibody Picoband™ catalog # A01097-1. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, 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	Q9NPF7

Technical Details

Immunogen	E. coli-derived human IL23 recombinant protein (Position: R20-R178).
Predicted Reactive Species	Human
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.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.1-0.5ug/ml

Direct ELISA, 0.1-0.5ug/ml

Anti-IL23/IL23A Antibody Picoband™ (A01097-1) Images

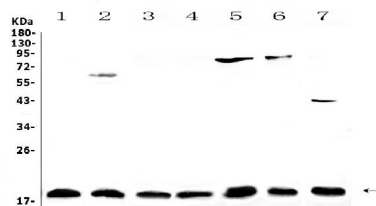


Figure 1. Western blot analysis of IL23 using anti-IL23 antibody (A01097-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human placenta tissue lysates,
Lane 2: human PANC-1 cell lysates,
Lane 3: rat lymph tissue lysates,
Lane 4: rat small intestine tissue lysates,
Lane 5: rat testis tissue lysates,
Lane 6: rat ovary tissue lysates,
Lane 7: mouse testis tissue lysates.
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-IL23 antigen affinity purified polyclonal antibody (Catalog # A01097-1) 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 # EK1002) with Tanon 5200 system. A specific band was detected for IL23 at approximately 19KD. The expected band size for IL23 is at 21KD.

1 Publications Citing This Product

1. PubMed ID: 10.1089/jir.2015.0030, Effects of Bacillus subtilis on Epithelial Tight Junctions of Mice with Inflammatory Bowel Disease

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