

Anti-IL1 beta/II1b Antibody Picoband™

Catalog Number: A00101-1

About II1b

FGFR1, Fibroblast growth factor receptor 1, also known as basic fibroblast growth factor receptor 1, fms-related tyrosine kinase-2 / Pfeiffer syndrome, and CD331, is a receptor tyrosine kinase whose ligands are specific members of the fibroblast growth factor family. The FGFR1 gene is localized to 8p12-p11.2 by in situ hybridization. FGFR1 is essential for the normal formation of the organ of Corti and that phenotype severity observed in FGFR1 mutants is dependent on the dose of FGFR1. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, squamous cell lung cancer and autosomal dominant Kallmann syndrome 2.

Overview

Product Name	Anti-IL1 beta/II1b Antibody Picoband™
Reactive Species	Mouse
Description	Boster Bio Anti-IL1 beta/II1b Antibody Picoband™ catalog # A00101-1. Tested in ELISA, WB applications. This antibody reacts with Mouse.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
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	II1b: P10749

Technical Details

Immunogen	E.coli-derived mouse IL-1 beta/II1b recombinant protein (Position: V118-S269).
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:</p> <p>Western blot, 0.1-0.25ug/ml</p> <p>Direct ELISA, 0.1-0.5 ug/ml</p>

Anti-IL1 beta/II1b Antibody Picoband™ (A00101-1) Images

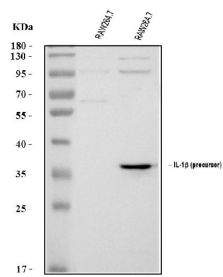


Figure 1. Western blot analysis of IL1 beta using anti-IL1 beta antibody (A00101-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: mouse RAW264.7(-LPS) whole cell lysates, Lane 2: mouse RAW264.7(+LPS) 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-IL1 beta antigen affinity purified polyclonal antibody (Catalog # A00101-1) at 0.25 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 IL1 beta at approximately 36 kDa. The expected band size for IL1 beta is at 31 kDa.

16 Publications Citing This Product

1. PubMed ID: 10.18632/aging.104104, TREM2 ameliorates neuroinflammatory response and cognitive impairment via PI3K/AKT/FoxO3a signaling pathway in Alzheimer's disease mice
2. PubMed ID: 10.3390/jcm10225449, Sophocarpine Alleviates Injury-Induced Intima Hyperplasia of Carotid Arteries by Suppressing Inflammation in a Rat Model
3. PubMed ID: 10.1016/j.micinf.2021.104845, CD38 deficiency up-regulated IL-1beta and MCP-1 through TLR4/ERK/NF-kappaB pathway in sepsis pulmonary injury

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