

## Anti-CD1B Antibody Picoband®

Catalog Number: A02158-2

### About CD1B

CD1B is a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene localizes to late endosomes and lysosomes via a tyrosine-based motif in the cytoplasmic tail, and requires vesicular acidification to bind lipid antigens.

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## Overview

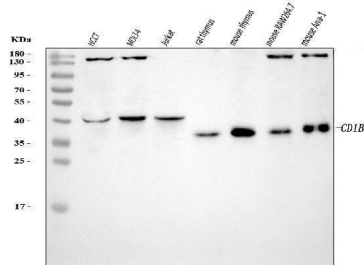
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-CD1B Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                            |
| Description          | Boster Bio Anti-CD1B Antibody Picoband® catalog # A02158-2. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application          | ELISA, WB                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                                                                                    |
| Storage Instructions | 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 freezing and thawing.                                                                                                                                                                                                                            |
| Host                 | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Uniprot ID           | P29016                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Technical Details

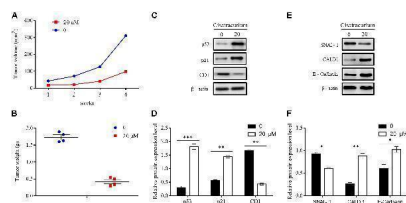
|           |                                                                     |
|-----------|---------------------------------------------------------------------|
| Immunogen | E.coli-derived human CD1B recombinant protein (Position: D78-Y110). |
|-----------|---------------------------------------------------------------------|

|                               |                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------|
| 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           | Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat<br>ELISA, 0.1-0.5 ug/ml, -                      |

## Anti-CD1B Antibody Picoband® (A02158-2) Images



Western blot analysis of CD1B using anti-CD1B antibody (A02158-2). 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: human HCCT tissue lysates, Lane 2: human MOLT-4 tissue lysates, Lane 3: human Jurkat whole cell lysates, Lane 4: rat thymus tissue lysates, Lane 5: mouse thymus tissue lysates, Lane 6: mouse RAW264.7 whole cell lysates, Lane 7: mouse Ana-1 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-CD1B antigen affinity purified polyclonal antibody (Catalog # A02158-2) 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 CD1B at approximately 40 kDa. The expected band size for CD1B is at 37 kDa.



(A-F) Cisatracurium inhibits metastatic ability of CRC in vivo . (A) Line graph of subcutaneous tumor volume. (B) Weight of subcutaneous tumors in grams. Data are expressed as mean tumor volume or weight  $\pm$  SE. \*  $p < 0.05$ . (C-F) Representative densities of tumor viability and migration regulatory proteins (p53, p21 and CD1, SNAI-1, CALD1, E-Cadherin) in tumor tissue samples. beta-Actin was used as internal control. The cluster bar charts in (D , F) indicates the levels of viability and migration regulatory proteins in the treatment group. Data are expressed as Mean  $\pm$  SEM (  $n = 3$ ). \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$  versus control. Index in PubMed under a CC BY license. PMID: 30108509

### Anti-CD1B Antibody

For Research Use Only. Not for use in diagnostic procedures.