

Anti-B7 DC/PDCD1LG2 Antibody Picoband™

Catalog Number: PB10010

About PDCD1LG2

Programmed cell death 1 ligand 2 (also known as PD-L2, B7-DC) is a protein that in humans is encoded by the PDCD1LG2 gene. It is mapped to chromosome 9p24.2. PD-L2 is one of two ligands for programmed death-1 (PD-1), a member of the CD28 family of immuno-receptors. Northern blot analysis detect wide expression of PDL2, with highest levels in placenta, heart, pancreas, lung, and liver, and lower levels in spleen, lymph nodes, and thymus. PDL2 negatively regulates T cells and plays an essential role in immune tolerance.

Overview

Product Name	Anti-B7 DC/PDCD1LG2 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-B7 DC/PDCD1LG2 Antibody Picoband™ catalog # PB10010. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	Q9BQ51

Technical Details

Immunogen	E.coli-derived human B7 DC recombinant protein (Position: L20-T220). Human B7 DC shares 72.1% amino acid (aa) sequence identity with mouse B7 DC.
Predicted Reactive Species	Bovine, Chicken, Monkey, Rabbit
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, 0.1-0.5ug/ml, Human</p>

Anti-B7 DC/PDCD1LG2 Antibody Picoband™ (PB10010) Images



Figure 1. Western blot analysis of B7 DC using anti-B7 DC antibody (PB10010).

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: HELA 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-B7 DC antigen affinity purified polyclonal antibody (Catalog # PB10010) 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 B7 DC at approximately 37 kDa. The expected band size for B7 DC is at 31 kDa.

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