BOSTER BIOLOGICAL TECHNOLOGY
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Anti-ALG2/PDCD6 Antibody Picoband®

Catalog Number: A03550-1

About PDCD6

This gene encodes a calcium-binding protein belonging to the penta-EF-hand protein family. Calcium binding is important for homodimerization and for conformational changes required for binding to other protein partners. This gene product participates in T cell receptor-, Fas-, and glucocorticoid-induced programmed cell death. In mice deficient for this gene product, however, apoptosis was not blocked suggesting this gene product is functionally redundant. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is also located on the short arm of chromosome 5.

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Overview

Product Name	Anti-ALG2/PDCD6 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ALG2/PDCD6 Antibody Picoband® catalog # A03550-1. Tested in WB, Flow Cytometry 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	Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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	O75340

Technical Details

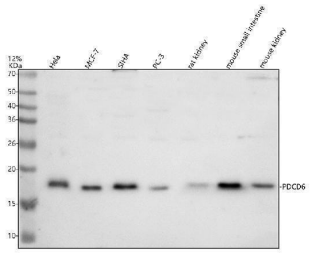
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ALG2/PDCD6. Human ALG2/PDCD6 shares 100% amino acid (aa) sequence identity with both mouse and rat ALG2/PDCD6.

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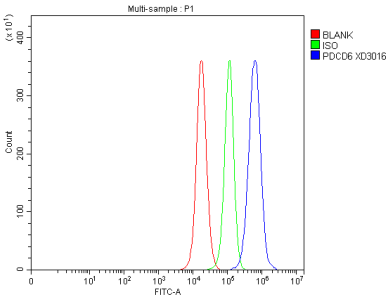
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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Anti-ALG2/PDCD6 Antibody Picoband® (A03550-1) Images



Western blot analysis of ALG2/PDCD6 using anti-ALG2/PDCD6 antibody (A03550-1). Electrophoresis was performed on a 12% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human SIHA whole cell lysates, Lane 4: human PC-3 whole cell lysates, Lane 5: rat kidney tissue lysates, Lane 6: rat small intestine tissue lysates, Lane 7: mouse kidney tissue 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-ALG2/PDCD6 antigen affinity purified polyclonal antibody (A03550-1) 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 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for ALG2/PDCD6 at approximately 17 kDa. The expected band size for ALG2/PDCD6 is at 22 kDa.



Flow Cytometry analysis of PC-3 cells using anti-ALG2/PDCD6 antibody (A03550-1). Overlay histogram showing PC-3 cells stained with A03550-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-ALG2/PDCD6 Antibody (A03550-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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