

Anti-PDCD2 Antibody Picoband®

Catalog Number: A07247-1

About PDCD2

This gene encodes a nuclear protein expressed in a variety of tissues. Expression of this gene has been shown to be repressed by B-cell CLL/Lymphoma 6 (BCL6), a transcriptional repressor required for lymph node germinal center development, suggesting that BCL6 regulates apoptosis by its effects on this protein. Alternative splicing results in multiple transcript variants and pseudogenes have been identified on chromosomes 9 and 12.

Overview

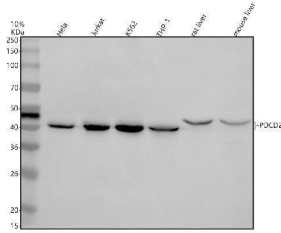
Product Name	Anti-PDCD2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PDCD2 Antibody Picoband® catalog # A07247-1. Tested in WB, ICC/IF, IP, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium 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, Flow Cytometry, IP, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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	Q16342

Technical Details

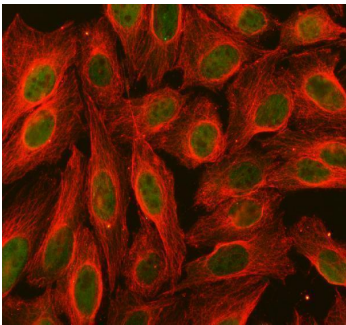
Immunogen	E.coli-derived human PDCD2 recombinant protein (Position: R7-Q254). Human PDCD2 shares 82.2% and 81.7% amino acid (aa) sequence identity with mouse and rat PDCD2, respectively.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human Immunoprecipitation, 0.5-2 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10 ⁶ cells, Human

	ELISA, 0.1-0.5 ug/ml
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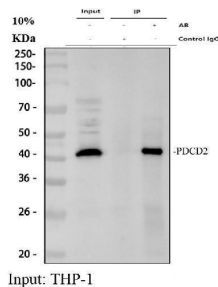
Anti-PDCD2 Antibody Picoband® (A07247-1) Images



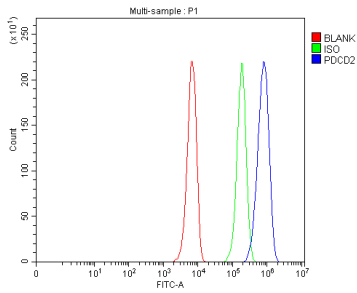
Western blot analysis of PDCD2 using anti-PDCD2 antibody (A07247-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human Jurkat whole cell lysates, Lane 3: human K562 whole cell lysates, Lane 4: human THP-1 whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: mouse liver 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-PDCD2 antigen affinity purified polyclonal antibody (A07247-1) 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 PDCD2 at approximately 39,45 kDa. The expected band size for PDCD2 is at 39 kDa.



IF analysis of PDCD2 using anti-PDCD2 antibody (A07247-1) and anti-Tubulin Alpha antibody (M03989-3). PDCD2 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-PDCD2 Antibody (A07247-1) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) and Cy3 Conjugated Goat Anti-Mouse IgG (BA1031) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Immunoprecipitating (IP) PDCD2 in THP-1 whole cell lysate. Western blot analysis of PDCD2 using anti-PDCD2 antibody (A07247-1); Lane 1: THP-1 whole cell lysates (30ug); Lane 2: Rabbit control IgG instead of anti-PDCD2 antibody in THP-1 whole cell lysate; Lane 3: anti-PDCD2 antibody (2ug) + THP-1 whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PDCD2 antigen affinity purified polyclonal antibody (A07247-1) at a dilution of 0.5 ug/mL and probed with a mouse anti-rabbit IgG-HRP secondary antibody (Catalog # BM2007). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1196-200). A specific band was detected for PDCD2 at approximately 45 kDa. The expected band size for PDCD2 is at 39 kDa.



Flow Cytometry analysis of K562 cells using anti-PDCD2 antibody (A07247-1). Overlay histogram showing K562 cells stained with A07247-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PDCD2 Antibody (A07247-1, 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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Anti-PDCD2 Antibody

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