

Anti-ISOC2 Antibody Picoband®

Catalog Number: A14181-1

About ISOC2

ISOC2 (isochorismatase domain-containing protein 2) is a 205 amino acid protein belonging to the isochorismatase family. Isochorismatase is an enzyme that catalyzes the chemical reaction of isochorismate and water to 2,3-dihydroxy-2,3-dihydrobenzoate and pyruvate. Localized to mitochondrion and cytoplasm, ISOC2 interacts with CDKN2A and localizes to the nucleus in the presence of it. ISOC2 is ubiquitously expressed, with highest levels found in uterus, stomach and urinary tract system. Over-expressed ISOC2 inhibits the expression of CDKN2A, suggesting that this novel gene may play a role during tumor development by interacting with CDKN2A. Three isoforms are produced by alternative splicing events.

Overview

Product Name	Anti-ISOC2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ISOC2 Antibody Picoband® catalog # A14181-1. Tested in WB, IF, ICC, 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, 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	Q96AB3

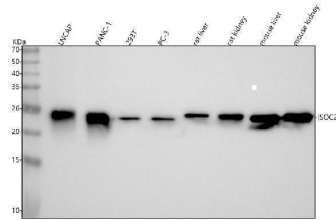
Technical Details

Immunogen	E.coli-derived human ISOC2 recombinant protein (Position: M1-H205). Human ISOC2 shares 84.2% and 75% amino acid (aa) sequence identity with mouse and rat ISOC2, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

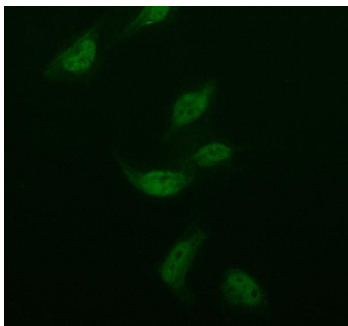
Suggested Dilutions

Western blot, 0.1-0.25 ug/ml, Human, Mouse, Rat
Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human
ELISA, 0.1-0.5 ug/ml, -

Anti-ISOC2 Antibody Picoband® (A14181-1) Images



Western blot analysis of ISOC2 using anti-ISOC2 antibody (A14181-1). 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: human LNCAP whole cell lysates, Lane 2: human PANC-1 whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: human PC-3 whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: rat kidney tissue lysates, Lane 7: mouse liver tissue lysates, Lane 8: 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-ISOC2 antigen affinity purified polyclonal antibody (Catalog # A14181-1) 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 ISOC2 at approximately 22 kDa. The expected band size for ISOC2 is at 22 kDa.



IF analysis of ISOC2 using anti-ISOC2 antibody (A14181-1). ISOC2 was detected in an immunocytochemical section of BEAS-2B cells. 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-ISOC2 Antibody (A14181-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was 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.

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Anti-ISOC2 Antibody

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