

Anti-Ago2/eIF2C2 Antibody Picoband®

Catalog Number: PB9978

About AGO2

Protein argonaute-2, also known as AGO2, is a protein that in humans is encoded by the EIF2C2 gene. This gene encodes a member of the Argonaute family of proteins which play a role in RNA interference. The encoded protein is highly basic, and contains a PAZ domain and a PIWI domain. It may interact with dicer1 and play a role in short-interfering-RNA-mediated gene silencing. Multiple transcript variants encoding different isoforms have been found for this gene.

Overview

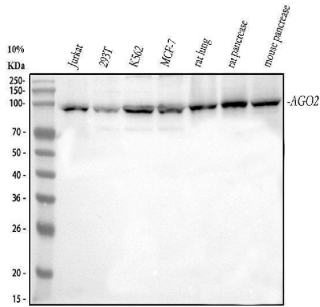
Product Name	Anti-Ago2/eIF2C2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Ago2/eIF2C2 Antibody Picoband® catalog # PB9978. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
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	Q9UKV8

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Ago2/ eIF2C2, identical to the related mouse and rat sequences.
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, 0.1-0.5ug/ml, Human, Mouse, Rat

Anti-Ago2/eIF2C2 Antibody Picoband® (PB9978) Images



Western blot analysis of Ago2/eIF2C2 using anti-Ago2/eIF2C2 antibody (PB9978). 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 Jurkat whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human K562 whole cell lysates, Lane 4: human MCF-7 whole cell lysates, Lane 5: rat lung tissue lysates, Lane 6: rat pancreas tissue lysates, Lane 7: mouse pancreas 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-Ago2/eIF2C2 antigen affinity purified polyclonal antibody (Catalog # PB9978) 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 Ago2/eIF2C2 at approximately 97 kDa. The expected band size for Ago2/eIF2C2 is at 97 kDa.

1 Publications Citing This Product

1. PubMed ID: 33177098, Xin X, Kumar V, Lin F, Kumar V, Bhattarai R, Bhatt VR, Tan C, Mahato RI. Redox-responsive nanoplatform for codelivery of miR-519c and gemcitabine for pancreatic cancer therapy. *Sci Adv.* 2020 Nov 11;6(46):eabd6764.doi:10.1126/sciadv.abd6764.PMID:33177098.

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Anti-Ago2/eIF2C2 Antibody

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