

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.
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.
Predicted Reactive Species	Bovine, Canine, Hamster, Horse, 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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

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

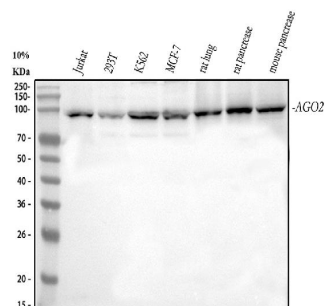


Figure 1. Western blot analysis of Ago2/eIF2C2 using anti-Ago2/eIF2C2 antibody (PB9978). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

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 nanoplatfor 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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