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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Arc Antibody Picoband™

Catalog Number: PB9753

About ARC

ARC, officially called activity-regulated cytoskeleton-associated protein, is a plasticity protein first characterized in 1995. It is a member of the immediate-early gene (IEG) family. The ARC gene is mapped to chromosome 8q24. It has got 460 amino acid protein which shares significant similarity with rat Arc. The Arc is highly expressed in heart, brain, lung, skeletal muscle, pancreas, prostate and testis and has got weak expression in small intestine, colon, and peripheral blood leukocytes. Arc is widely considered to be an important protein in neurobiology and also a significant tool for systems neuroscience.

Overview

Product Name	Anti-Arc Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Arc Antibody Picoband™ catalog # PB9753. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	Q7LC44

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Arc, different from the related mouse sequence by two amino acids, and from the related rat sequence by three amino acids.
Predicted Reactive Species	Hamster
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.

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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

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Anti-Arc Antibody Picoband™ (PB9753) Images

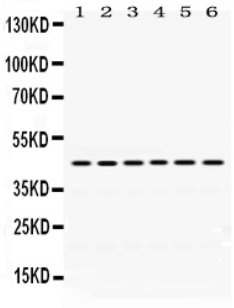

Figure 1. Western blot analysis of Arc using anti-Arc antibody (PB9753).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.
Lane 1: Rat Brain Tissue Lysate at 50ug,
Lane 2: Rat Testis Tissue Lysate at 50ug,
Lane 3: Mouse Brain Tissue Lysate at 50ug,
Lane 4: PANC Whole Cell Lysate at 40ug,
Lane 5: HELA Whole Cell Lysate at 40ug,
Lane 6: MCF-7 Whole Cell Lysate at 40ug.
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-Arc antigen affinity purified polyclonal antibody (Catalog # PB9753) 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 Arc at approximately 45 kDa. The expected band size for Arc is at 45 kDa.