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.

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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. 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 antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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

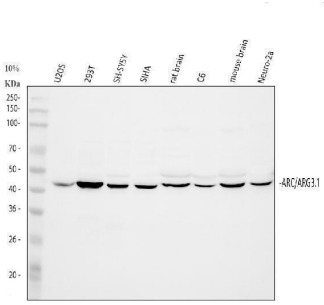
Technical Details

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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.
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

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Anti-Arc Antibody Picoband® (PB9753) Images



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. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U20S whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human SH-SY5Y whole cell lysates, Lane 4: human SiHa whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat C6 whole cell lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse Neuro-2a whole cell 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-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.

Anti-Arc Antibody

For Research Use Only. Not for use in diagnostic procedures.