BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Coxsackie Adenovirus Receptor/CXADR Antibody Picoband®

Catalog Number: PA1852

About CXADR

CXADR (Coxsackie virus and adenovirus receptor) is a protein that in humans is encoded by the CXADR gene, also known as CAR,CVB3-binding protein, Coxsackievirus B-adenovirus receptor. The CAR cDNA encodes a predicted 365-amino acid polypeptide that contains a single transmembrane domain and is a member of the immunoglobulin superfamily. By Northern blot analysis, they detected highest expression of 1.4-kb and 6-kb CXADR transcripts in pancreas, brain, heart, small intestine, testis, and prostate, lower expression in liver and lung, and no expression in kidney, placenta, peripheral blood leukocytes, thymus, and spleen. In comparison, mouse Cxadr showed highest expression in liver, and lower levels in kidney, heart, lung, and brain. The protein encoded by this gene is a type I membrane receptor for group B coxsackie viruses and subgroup C adenoviruses. Pseudogenes of this gene are found on chromosomes 15, 18, and 21. CAR is strongly expressed in the developing central nervous system. It functions as a homophilic and also as a heterophilic cell adhesion molecule through its interactions with extracellular matrix glycoproteins , such as: fibronectin, agrin, laminin-1 and tenascin-R.

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Overview

Product Name	Anti-Coxsackie Adenovirus Receptor/CXADR Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Coxsackie Adenovirus Receptor/CXADR Antibody catalog # PA1852. 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, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg 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

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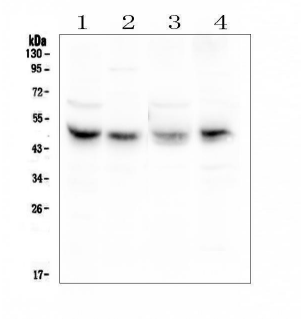
Uniprot ID	P78310

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Coxsackie Adenovirus Receptor, identical to the related rat and mouse 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

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Anti-Coxsackie Adenovirus Receptor/CXADR Antibody Picoband® (PA1852) Images



Western blot analysis of Coxsackie Adenovirus Receptor using anti-Coxsackie Adenovirus Receptor antibody (PA1852). 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 50ug of sample under reducing conditions. Lane 1: rat liver tissue lysate, Lane 2: rat heart tissue lysates, Lane 3: mouse liver tissue lysates, Lane 4: mouse HEPA1-6 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-Coxsackie Adenovirus Receptor antigen affinity purified polyclonal antibody (Catalog # PA1852) 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 1:10000 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 Coxsackie Adenovirus Receptor at approximately 50KD. The expected band size for Coxsackie Adenovirus Receptor is at 40KD.



Western blot analysis of Coxsackie Adenovirus Receptor using anti-Coxsackie Adenovirus Receptor antibody (PA1852). 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 50ug of sample under reducing conditions. Lane 1: human A431 whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human Caco-2 whole cell lysates, Lane 5: human U-937whole cell lysates(negative), Lane 6: human THP-1whole cell lysates(negative). After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-Coxsackie Adenovirus Receptor antigen affinity purified polyclonal antibody (Catalog # PA1852) 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 1:10000 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 Coxsackie Adenovirus Receptor at approximately 50KD. The expected band size for Coxsackie Adenovirus Receptor is at 40KD.

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