BOSTER BIOLOGICAL TECHNOLOGY
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Anti-StAR Antibody Picoband®

Catalog Number: A00051-1

About STAR

The steroidogenic acute regulatory protein, commonly referred to as StAR (STARD1), is a transport protein. This protein plays a key role in the acute regulation of steroid hormone synthesis by enhancing the conversion of cholesterol into pregnenolone. It permits the cleavage of cholesterol into pregnenolone by mediating the transport of cholesterol from the outer mitochondrial membrane to the inner mitochondrial membrane. Mutations in this gene are a cause of congenital lipoid adrenal hyperplasia (CLAH), also called lipoid CAH. A pseudogene of this gene is located on chromosome 13.

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Overview

Product Name	Anti-StAR Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-StAR Antibody Picoband® catalog # A00051-1. 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 4mg Trehalose, 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	P49675

Technical Details

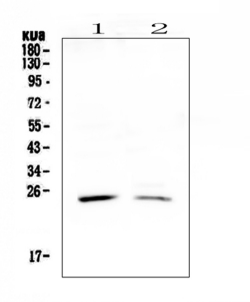
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human StAR, which shares 85% and 87.5% amino acid (aa) sequence identity with mouse and rat StAR, respectively.

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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

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Anti-StAR Antibody Picoband® (A00051-1) Images



Western blot analysis of StAR using anti-StAR antibody (A00051-1). 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 testis tissue lysates,Lane 2: mouse testis tissue 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-StAR antigen affinity purified polyclonal antibody (Catalog # A00051-1) 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 StAR at approximately 25KD. The expected band size for StAR is at 32KD.

2 Publications Citing This Product

1. PubMed ID: 10.1016/j.fct.2017.01.011, Effects of six priority controlled phthalate esters with long-term low-dose integrated exposure on male reproductive toxicity in rats

2. PubMed ID: 10.1111/and.12581, 4-Methylcatechol inhibits cell growth and testosterone production in TM3 Leydig cells by reducing mitochondrial activity

Visit bosterbio.com/anti-star-picoband-trade-antibody-a00051-1-boster.html to see all 2 publications.

Anti-StAR Antibody

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