BOSTER BIOLOGICAL TECHNOLOGY
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Anti-GJA3 Antibody Picoband®

Catalog Number: PB9596

About GJA3

Gap junction alpha-3 protein, also known as Connexin-46, is a protein that in humans is encoded by the GJA3 gene. This gene is mapped to 13q12.11. The protein encoded by this gene is a connexin and is a component of lens fiber gap junctions. One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. Defects in this gene are a cause of zonular pulverulent cataract type 3 (CZP3).

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Overview

Product Name	Anti-GJA3 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GJA3 Antibody Picoband® catalog # PB9596. 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 4 mg Trehalose, 0.9 mg NaCl, 0.2mg Na2HPO4, 0.05 mg 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	Q9Y6H8

Technical Details

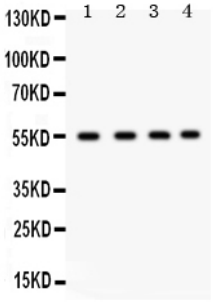
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GJA3, different from the related mouse and rat sequences by four amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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	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-GJA3 Antibody Picoband® (PB9596) Images



Western blot analysis of GJA3 using anti-GJA3 antibody (PB9596). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug, Lane 2: Rat Kidney Tissue Lysate at 50ug, Lane 3: Human Placenta Tissue Lysate at 50ug, Lane 4: NIH3T3 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-GJA3 antigen affinity purified polyclonal antibody (Catalog # PB9596) 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 GJA3 at approximately 55 kDa. The expected band size for GJA3 is at 47 kDa.

Anti-GJA3 Antibody

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