Product datasheet
Anti-Connexin-32/GJB1 Antibody
Catalog Number: *BA1592*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator,
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Basic Information

Product Name	Anti-Connexin-32/GJB1 Antibody
Gene Name	GJB1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Connexin 32/GJB1, identical to the related mouse and rat sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	32 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

Gap junction beta-1 protein (GJB1), also known as connexin 32 (Cx32) is a transmembrane protein that in humans is encoded by the GJB1 gene. This gene encodes a member of the gap junction protein family. The gap junction proteins are membrane-spanning proteins that assemble to form gap junction channels that facilitate the transfer of ions and small molecules between cells. According to sequence similarities at the nucleotide and amino acid levels, the gap junction proteins are divided into two categories, alpha and beta. Mutations in this gene cause X-linked Charcot-Marie-Tooth disease, an inherited peripheral neuropathy. Alternatively spliced transcript variants encoding the same protein have been found for this gene.

Reference

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Selected Validation Data
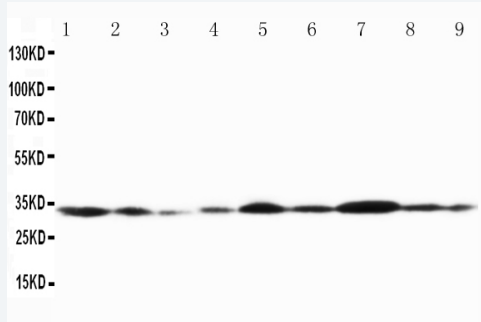
Figure 1. Western blot analysis of Connexin-32/GJB1 using anti-Connexin-32/GJB1 antibody (BA1592). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Rat Cardiac Muscle tissue lysates,
Lane 2: Rat Cardiac Muscle tissue lysates,
Lane 3: Rat Skeletal Muscle tissue lysates,
Lane 4: Rat Brain tissue lysates,
Lane 5: MCF-7 whole cell lysates,
Lane 6: HELA whole cell lysates,
Lane 7: SMMC whole cell lysates,
Lane 8: JURKAT whole cell lysates,
Lane 9: COLO320 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Connexin-32/GJB1 antigen affinity purified polyclonal antibody (BA1592) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Connexin-32/GJB1 at approximately 32 kDa. The expected band size for Connexin-32/GJB1 is at 32 kDa.
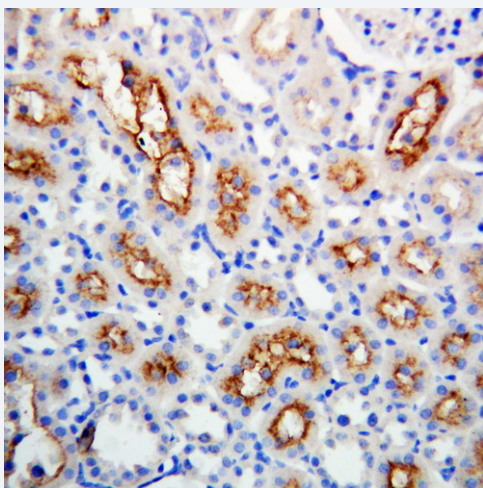

Figure 2. IHC analysis of Connexin-32/GJB1 using anti-Connexin-32/GJB1 antibody (BA1592).
Connexin-32/GJB1 was detected in a paraffin-embedded section of rat kidney tissue. The tissue section was incubated with rabbit anti-Connexin-32/GJB1 Antibody (BA1592) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1022) as the chromogen.