Product datasheet

Anti-Connexin 43/GJA1 Antibody

Catalog Number: *A00599*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-Connexin 43/GJA1 Antibody
Gene Name	GJA1
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, ELISA
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human Connexin 43/GJA1 recombinant protein (Position: D3-R362).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	43KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunocytochemistry in fixed cells: 1:50-400 (ELISA)： 1:100-1000 (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

Connexin 43 (Cx43), also called GAP Junction Protein, alpha-1(GJA1). Connexin 43 is a member of the connexin gene family which abundantly expressed in the heart and liver and was mapped to 6q21-q23.2. Connexin43, the major protein of gap junctions in the heart, is targeted by several protein kinases that regulate myocardial cell-cell coupling. Mutations in the connexin43 gap-junction gene, which lead to abnormally regulated cell-cell communication, are associated with visceroatrial heterotaxia. Cx43 must also play a critical role in the physiology of hearing, presumably by participating in the recycling of potassium to the cochlear endolymph.

Selected Validation Data

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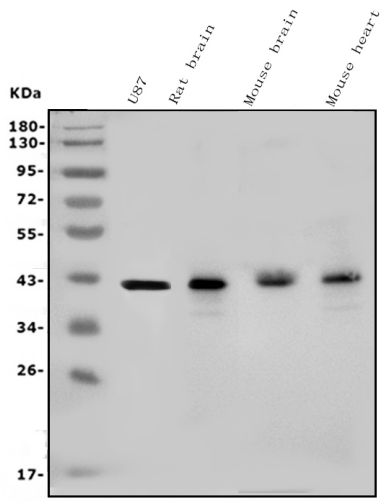

Figure 1. Western blot analysis of GJA1 using anti- GJA1 antibody (A00599).
The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human U-87MG whole cell lysates,
Lane 2: rat brain tissue lysates,
Lane 3: mouse brain tissue lysates,
Lane 4: mouse heart tissue lysates,
anti- GJA1 antigen affinity purified polyclonal antibody (Catalog # A00599)probed with a goat anti-rabbit IgG-HRP secondary antibody
The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) . A specific band was detected for GJA1 at approximately 43KD. The expected band size for GJA1 is at 43KD.

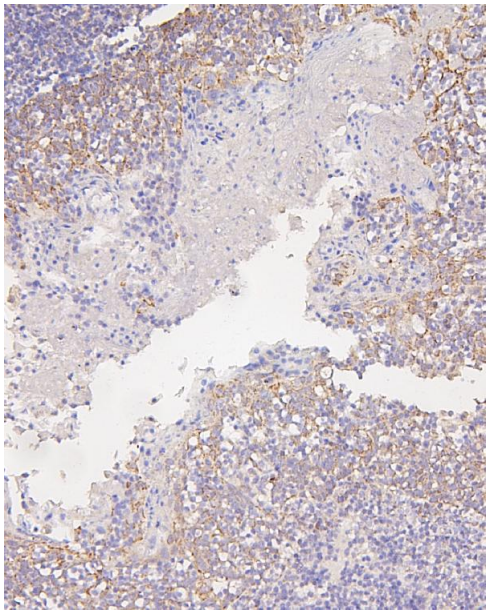

Figure 2. IHC analysis of GJA1 using anti- GJA1 antibody (A00599). GJA1 was detected in paraffin-embedded section of human tonsil tissues. Biotinylated goat anti-rabbit IgG was used as secondary antibody . The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

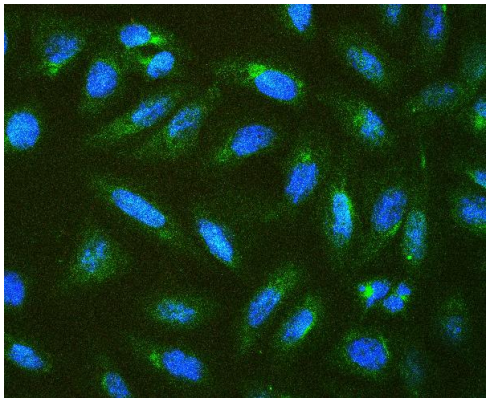

Figure 5. IF analysis of GJA1 using anti- GJA1 antibody (A00599). GJA1 was detected in immunocytochemical section of U20S cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) DyLight488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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