Product datasheet

Anti-Connexin-26/GJB2 Antibody

Catalog Number: *A00512-2*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-Connexin-26/GJB2 Antibody
Gene Name	GJB2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, FCM
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 GJB2, which shares 82.4% amino acid (aa) sequence identity with mouse and rat GJB2.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	26 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Flow Cytometry (Fixed):1:50-200

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Connexin26(CX26), also known as GAP junction protein, beta2, GJB2. Gap junctions were first characterized by electron microscopy as regionally specialized structures on plasma membranes of contacting adherent cells. These structures were shown to consist of cell-to-cell channels. Proteins, called connexins, purified from fractions of enriched gap junctions from different tissues differ. The 3-prime untranslated region of the CX26 transcript contains a putative mRNA instability sequence. The deduced 226-amino acid protein has a calculated molecular mass of about 26 kD. CX26 shares 92.5% identity with rat Cx26. connexin 26(GJB2) is assigned to human chromosome 13q11-q12 .Connexin 26 regulates epidermal barrier and wound remodeling and promotes psoriasiform response. Connexin 26 gene(GJB2) mutation modulates the severity of hearing loss associated with the 1555A-G mitochondrial mutation.

Reference

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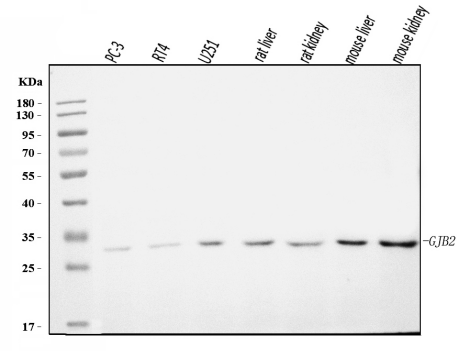
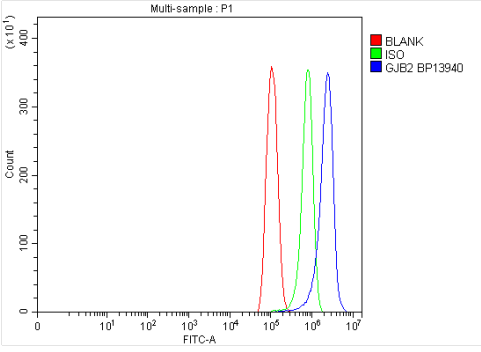
Anti-Connexin-26/GJB2 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of Connexin-26/GJB2 using anti-Connexin-26/GJB2 antibody (A00512-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: PC-3 whole cell lysates,
Lane 2: RT4 whole cell lysates,
Lane 3: U251 whole cell lysates,
Lane 4: rat liver tissue lysates,
Lane 5: rat kidney tissue lysates,
Lane 6: mouse liver tissue lysates,
Lane 7: mouse kidney tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Connexin-26/GJB2 antigen affinity purified polyclonal antibody (A00512-2) 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-26/GJB2 at approximately 26 kDa. The expected band size for Connexin-26/GJB2 is at 26 kDa.



Flow Cytometry analysis of PC-3 cells using anti-Connexin-26/GJB2 antibody (A00512-2).
Overlay histogram showing PC-3 cells stained with A00512-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Connexin-26/GJB2 Antibody (A00512-2) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.