bs-0651R **[Primary Antibody]**

Connexin 43 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2697 **SWISS:** P17302

Target: Connexin 43

Immunogen: KLH conjugated synthetic peptide derived from human Connexin-43: 211-260/382 human. < Cytoplasmic >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. The encoded protein is the major protein of gap junctions in the heart that are thought to have a crucial role in the synchronized contraction of the heart and in embryonic development. A related intronless pseudogene has been mapped to chromosome 5. Mutations in this gene have been associated with oculodentodigital dysplasia and heart malformations. [provided by RefSeq].

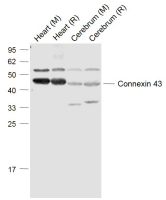
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted: Cow, Chicken, Dog)

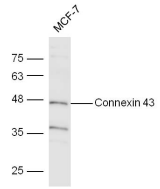
Predicted MW.: 42 kDa

Subcellular Location: Cell membrane ,Cytoplasm

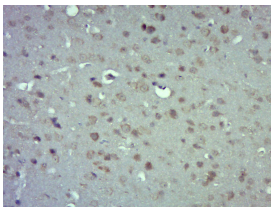
VALIDATION IMAGES



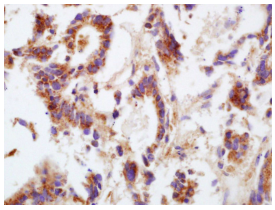
Sample: Lane 1: Heart (Mouse) Lysate at 40 ug Lane 2: Heart (Rat) Lysate at 40 ug Lane 3: Cerebrum (Mouse) Lysate at 40 ug Lane 4: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-Connexin 43 (bs-0651R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42 kD Observed band size: 45 kD



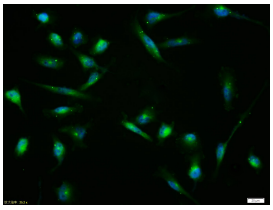
Sample: Mcf-7 Cell Lysate at 40 ug Primary: Anti-Connexin(bs-0651R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution Predicted band size: 42 kD Observed band size: 43 kD



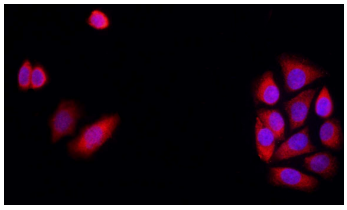
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Connexin 43) Polyclonal Antibody, Unconjugated (bs-0651R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human stomach cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for



Tissue/cell:U-251 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum,



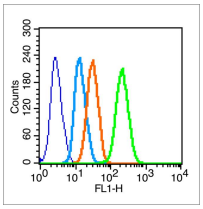
Tissue/cell: MCF7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum,

15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Connexin 43) Polyclonal Antibody, Unconjugated (bs-0651R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

C-0005) at 37°C for 20 min; Antibody incubation with (Connexin 43) polyclonal Antibody, Unconjugated (bs-0651R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

C-0005) at 37°C for 20 min; Antibody incubation with (Connexin 43) polyclonal Antibody, Unconjugated (bs-0651R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

Tissue/cell: rat heart tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Connexin 43 Polyclonal Antibody, Unconjugated(bs-0651R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, PE conjugated(bs-0295G-PE)used at 1:200 dilution for 40 minutes at 37°C.



Blank control (blue line):Hela(blue). Primary Antibody (green line): Rabbit Anti-Connexin 43 antibody(bs-0651R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): F(ab’)2 fragment goat anti-rabbit IgG-FITC. Dilution: 1μg /test. Protocol The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice.Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=11.5]** Jiaxin Liu. et al. Microneedle-mediated biomimetic nanoparticles for targeted antioxidant and anti-inflammatory therapy in age-related macular degeneration. J CONTROL RELEASE. 2025 Aug;384:113908 WB ;Human. 40451555
- **[IF=9.5]** Zheng Meng. et al. Targeted ablation of the left middle cervical ganglion prevents ventricular arrhythmias and cardiac injury induced by AMI. BASIC RES CARDIOL. 2023 Dec;:1-18 WB ;Dog. 38151579
- **[IF=5.9]** Zhao, Jing, et al. "Chronic obstructive sleep apnea causes atrial remodeling in canines: mechanisms and implications." Basic Research in Cardiology 109.5 (2014): 1-13. WB ;="Dog". 25015734
- **[IF=5.572]** Xu Yang. et al. Deoxynivalenol induces testicular ferroptosis by regulating the Nrf2/System Xc－/GPX4 axis. FOOD CHEM TOXICOL. 2023 May;175:113730 WB ;Mouse. 36925038
- **[IF=5.029]** Hanhan Fang. et al. Gut-Spleen Axis: Microbiota via Vascular and Immune Pathways Improve Busulfan-Induced Spleen Disruption | mSphere. MSPHERE. 2022 Dec;: IF ;Mouse. 36511706