

bs-8987R**[Primary Antibody]****Connexin 43 Rabbit pAb****Bioss**
ANTIBODIES

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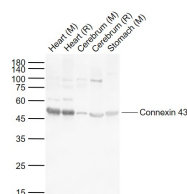
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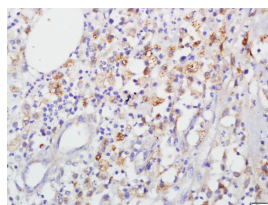
400-901-9800

DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 2697**SWISS:** P17302**Target:** Connexin 43**Immunogen:** KLH conjugated synthetic peptide derived from human Connexin 43: 2-100/382. < Extracellular >**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

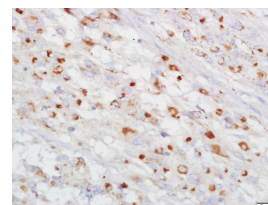
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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)**Reactivity:** Human, Mouse, Rat
(predicted: Rabbit, Pig, Cow, Chicken, Dog)**Predicted MW.:** 42 kDa**Subcellular Location:** Cell membrane ,Cytoplasm**VALIDATION IMAGES**

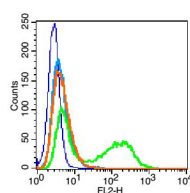
Sample: Lane 1: Mouse Heart tissue lysates
 Lane 2: Rat Heart tissue lysates
 Lane 3: Mouse Cerebrum tissue lysates
 Lane 4: Rat Cerebrum tissue lysates
 Lane 5: Mouse Stomach tissue lysates
 Primary: Anti-Connexin 43 (bs-8987R) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 43 kD
 Observed band size: 48 kD



Tissue/cell: human cervix carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-Connexin 43 Polyclonal Antibody, Unconjugated(bs-8987R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human brain glioma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-Connexin 43 Polyclonal Antibody, Unconjugated(bs-8987R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control(blue): HUVEC cells(fixed with 2% paraformaldehyde (10 min)). Primary Antibody:Rabbit Anti-Connexin 43

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

antibody(bs-8987R), Dilution: 1µg in 100 µL 1X
PBS containing 0.5% BSA; Isotype Control
Antibody: Rabbit IgG(orange) ,used under the
same conditions); Secondary Antibody: Goat
anti-rabbit IgG-PE(white blue), Dilution: 1:200 in
1 X PBS containing 0.5% BSA.

— SELECTED CITATIONS —

- **[IF=5.8]** Huang Jing. et al. Effects of exposure to PM2.5 during pregnancy on the multigenerational reproductive outcomes of male mouse offspring and the role of Sertoli cells. ENVIRON SCI POLLUT R. 2023 Sep;;1-13 WB ;Mouse. 37697192
- **[IF=3.616]** Ying Cao. et al. Effects of different dosages esketamine on cardiac conduction and heterogeneity of Cx43: the epicardial mapping in guinea pigs. ANN TRANSL MED. 2022 Jul; 10(14): 772 IF ;Guinea pig. 35965820
- **[IF=2.9]** Xiuping Chen. et al. Enriched environment alleviates neurological deficits via downregulation of Cx43 after experimental stroke. BRAIN RES. 2023 Dec;1821:148619 IHC ;Rat. 37805009