

**GJA1 / CX43 / Connexin 43 Antibody (C-Terminus)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS16651****Specification**

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**GJA1 / CX43 / Connexin 43 Antibody (C-Terminus) - Product Information**

|                   |  |
|-------------------|--|
| Application       | WB, IHC-P, IF                            |
| Primary Accession | <a href="#">P17302</a>                   |
| Other Accession   | <a href="#">2697</a>                     |
| Reactivity        | Human, Mouse, Rat, Monkey, Dog           |
| Host              | Goat                                     |
| Clonality         | Polyclonal                               |
| Isotype           | IgG                                      |
| Calculated MW     | 43008                                    |
| Dilution          | WB~~1:1000<br>IHC-P~~N/A<br>IF~~1:50~200 |

**GJA1 / CX43 / Connexin 43 Antibody (C-Terminus) - Additional Information****Gene ID** 2697**Other Names**

GJA1, Connexin-43, DFNB38, Connexin 43, Gap junction alpha-1 protein, GJAL, HSS, Gap junction protein alpha 1, ODDD, ODD, AVSD3, CX43, HLHS1, ODOD, SDTY3

**Target/Specificity**

Detects endogenous levels of total connexin 43.

**Reconstitution & Storage**

PBS, 20% glycerol, 0.05% sodium azide. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

**Precautions**

GJA1 / CX43 / Connexin 43 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**GJA1 / CX43 / Connexin 43 Antibody (C-Terminus) - Protein Information****Name** GJA1**Synonyms** GJAL**Function**

Gap junction protein that acts as a regulator of bladder capacity. A gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. May play a critical role in the physiology of hearing by participating in the recycling of potassium to the cochlear endolymph.

Negative regulator of bladder functional capacity: acts by enhancing intercellular electrical and chemical transmission, thus sensitizing bladder muscles to cholinergic neural stimuli and causing them to contract (By similarity). May play a role in cell growth inhibition through the regulation of NOV expression and localization. Plays an essential role in gap junction communication in the ventricles (By similarity).

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein. Cell junction, gap junction. Endoplasmic reticulum {ECO:0000250|UniProtKB:P23242}. Note=Localizes at the intercalated disk (ICD) in cardiomyocytes and the proper localization at ICD is dependent on TMEM65. {ECO:0000250|UniProtKB:P23242}

#### **Tissue Location**

Expressed at intercalated disks in the heart (at protein level) (PubMed:11741837, PubMed:18662195). Expressed in the fetal cochlea (PubMed:11741837).

#### **Volume**

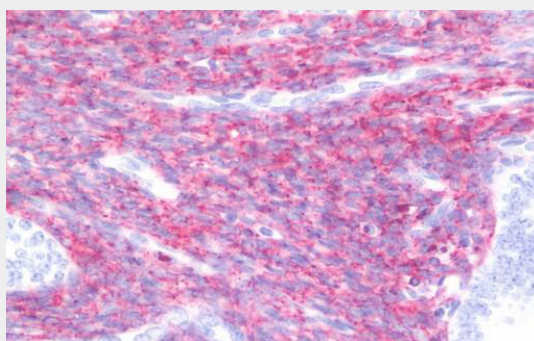
100 µl

### **GJA1 / CX43 / Connexin 43 Antibody (C-Terminus) - Protocols**

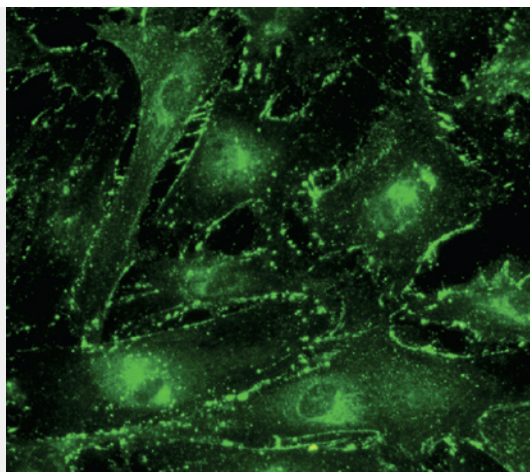
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

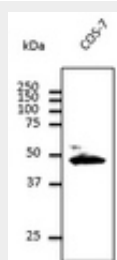
### **GJA1 / CX43 / Connexin 43 Antibody (C-Terminus) - Images**



Anti-GJA1 / CX43 / Connexin 43 antibody IHC staining of human uterus, endometrium.



Immunofluorescence. Immunostaining of primary RPE cells with CX43 antibody at 1:100 dilution.



Western blot.

### **GJA1 / CX43 / Connexin 43 Antibody (C-Terminus) - Background**

Gap junction protein that acts as a regulator of bladder capacity. A gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. May play a critical role in the physiology of hearing by participating in the recycling of potassium to the cochlear endolymph. Negative regulator of bladder functional capacity: acts by enhancing intercellular electrical and chemical transmission, thus sensitizing bladder muscles to cholinergic neural stimuli and causing them to contract (By similarity).

### **GJA1 / CX43 / Connexin 43 Antibody (C-Terminus) - References**

- Fishman G.I.,et al.J. Cell Biol. 111:589-598(1990).
- Fishman G.I.,et al.Genomics 10:250-256(1991).
- Haefliger J.-A.,et al.Eur. Heart J. 20:1843-1843(1999).
- Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
- Ota T.,et al.Nat. Genet. 36:40-45(2004).