

**GJA1 / CX43 / Connexin 43 Antibody (aa333-382)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS15038****Specification**

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**GJA1 / CX43 / Connexin 43 Antibody (aa333-382) - Product Information**

Application	IF, IHC
Primary Accession	<a href="#">P17302</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43kDa KDa

**GJA1 / CX43 / Connexin 43 Antibody (aa333-382) - Additional Information****Gene ID** 2697**Other Names**

Gap junction alpha-1 protein, Connexin-43, Cx43, Gap junction 43 kDa heart protein, GJA1, GJAL

**Target/Specificity**

Connexin 43 Antibody detects endogenous levels of total Connexin 43 protein.

**Reconstitution & Storage**

Store at -20°C for up to one year.

**Precautions**

GJA1 / CX43 / Connexin 43 Antibody (aa333-382) is for research use only and not for use in diagnostic or therapeutic procedures.

**GJA1 / CX43 / Connexin 43 Antibody (aa333-382) - 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 in the heart and fetal cochlea.

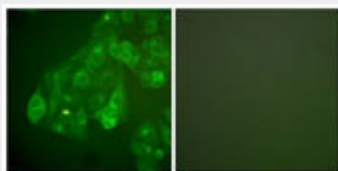
**Volume**

50 µl

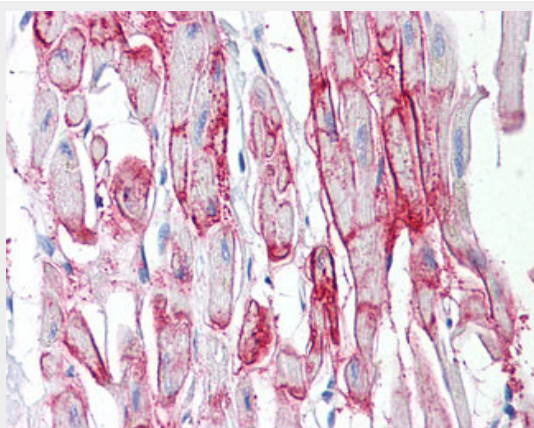
**GJA1 / CX43 / Connexin 43 Antibody (aa333-382) - Protocols**

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 (aa333-382) - Images**

Immunofluorescence of A549 cells, using Connexin 43 Antibody.



Anti-GJA1 / Connexin 43 antibody IHC of human heart.

**GJA1 / CX43 / Connexin 43 Antibody (aa333-382) - 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 (aa333-382) - 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).