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GJA1 / CX43 / Connexin 43 Antibody (C-Terminus)

Goat Polyclonal Antibody
Catalog # ALS15915

Specification

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

Application	**WB, IF**
Primary Accession	P17302
Reactivity	**Human, Mouse, Rat, Monkey, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**43kDa KDa**

GJA1 / CX43 / Connexin 43 Antibody (C-Terminus) - 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
Detects endogenous levels of total connexin 43.

Reconstitution & Storage
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).

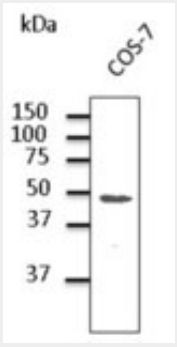
Volume
Array

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

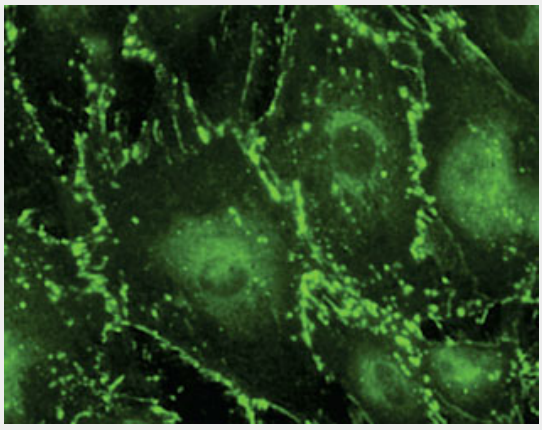
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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



Western blot.



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

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).