

GJA1 / CX43 / Connexin 43 Antibody (aa340-390)
Rabbit Polyclonal Antibody
Catalog # ALS16975

Specification

GJA1 / CX43 / Connexin 43 Antibody (aa340-390) - Product Information

Application	IHC, WB
Primary Accession	P17302
Other Accession	2697
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43008

GJA1 / CX43 / Connexin 43 Antibody (aa340-390) - 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

Human GJA1 / Connexin 43

Reconstitution & Storage

PBS, pH 7.2, 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 (aa340-390) is for research use only and not for use in diagnostic or therapeutic procedures.

GJA1 / CX43 / Connexin 43 Antibody (aa340-390) - 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

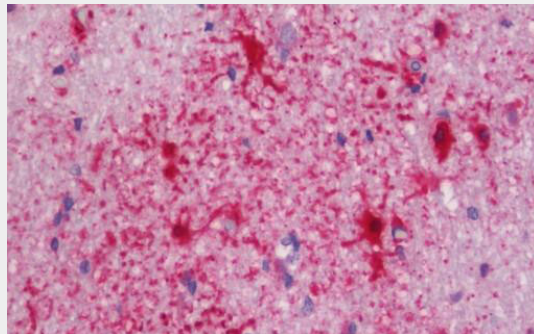
Expressed in the heart and fetal cochlea.

GJA1 / CX43 / Connexin 43 Antibody (aa340-390) - Protocols

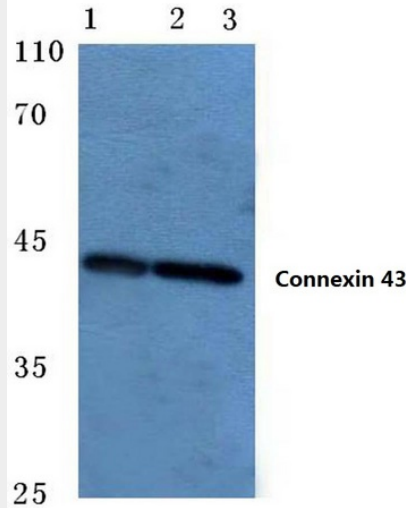
Provided below are standard protocols that you may find useful for product applications.

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

GJA1 / CX43 / Connexin 43 Antibody (aa340-390) - Images



Anti-GJA1 / CX43 / Connexin 43 antibody IHC staining of human brain, cortex.



Western blot analysis of Connexin 43 pAb at a 1:500 dilution.

GJA1 / CX43 / Connexin 43 Antibody (aa340-390) - 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 (aa340-390) - 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).