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Anti-GJA1 / CX43 / Connexin 43 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17578

Product Information

Application	IHC-P
Primary Accession	P17302
Predicted	Human, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43008
Concentration (mg/ml)	0.1 mg/ml

Additional Information

Gene ID	2697
Alias Symbol	GJA1
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. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-GJA1 / CX43 / Connexin 43 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GJA1
Synonyms	GJAL
Function	Structural component of the gap junction, a specialized intercellular structure consisting of a cluster of closely packed pairs of transmembrane channels, the connexons, that allow passage of small molecules and electrical signals between neighboring cells (By similarity). Forms homotypic and heterotypic channels gated by transjunctional voltage (By similarity). May play a critical role in the physiology of hearing by participating in the recycling of potassium to the cochlear endolymph (Probable). 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 the

	conductive system of ventricular myocardium and heart morphogenesis (By similarity). May play a role in cell growth inhibition through the regulation of NOV expression and localization (By similarity). Involved in intercellular innate immune signaling (PubMed:24077100, PubMed:31992625, PubMed:40010341). Mediates translocation of 2',3'-cGAMP and 2',5'-oligoadenylates (2-5A) second messengers from virus-infected cells to macrophages and uninfected neighboring cells to propagate and amplify the antiviral immune response (PubMed:24077100, PubMed:31992625, PubMed:40010341).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cell junction, gap junction. Endoplasmic reticulum {ECO:0000250|UniProtKB:P23242}. Cell junction Note=Localizes at the intercalated disk (ICD) between two adjacent 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, PubMed:38375917) Expressed in the fetal cochlea (PubMed:11741837). Expressed by keratinocytes in the skin (at protein level) (PubMed:26604139)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.