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Connexin-40 Rabbit pAb

Catalog # AP97444

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P36382
Other Accession	P36382
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40380
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Connexin-40
Epitope Specificity	301-358/358
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the connexin family. Alpha-type (group II) subfamily.
SUBUNIT	A connexon is composed of a hexamer of connexins.
DISEASE	Familial atrial standstill (FAS) [MIM:108770]: Atrial standstill is an extremely rare arrhythmia, characterized by the absence of electrical and mechanical activity in the atria. Electrocardiographically, it is characterized by bradycardia, the absence of P waves, and a junctional narrow complex escape rhythm. Note=The disease may be caused by mutations affecting distinct genetic loci, including the gene represented in this entry. A rare GJA5 genotype has been detected in combination with a mutation in SCN5A in a large family with atrial standstill. Familial atrial fibrillation 11 (ATFB11) [MIM:614049]: A familial form of atrial fibrillation, a common sustained cardiac rhythm disturbance. Atrial fibrillation is characterized by disorganized atrial electrical activity and ineffective atrial contraction promoting blood stasis in the atria and reduces ventricular filling. It can result in palpitations, syncope, thromboembolic stroke, and congestive heart failure. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. Mutations in this gene may be associated with atrial fibrillation. Alternatively spliced transcript variants encoding the same isoform have been described. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	2702
Other Names	ATFB11; CX40; CXA5_HUMAN; GJA5; Connexin-40 (Cx40); gap junction protein

	alpha 5; gap junction protein, alpha 5, 40kD (connexin 40); gap junction protein, alpha 5, 40kDa (connexin 40); gap junction protein, alpha 5, 40kDa; connexin 40
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GJA5
Function	One 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.
Cellular Location	Cell membrane; Multi-pass membrane protein. Cell junction, gap junction

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