



Rabbit Anti-Connexin-40 antibody

SL1050R

Product Name:	Connexin-40
Chinese Name:	间隙连接蛋白40抗体
Alias:	connexin 40; connexin40; CX40; Gap junction alpha 5 protein; gap junction protein alpha 5 40kD (connexin 40); gap junction protein alpha 5; GJA5; MGC11185; CXA5 HUMAN; Gap junction alpha-5 protein; Connexin-40; Cx40.
文献引用 PubMed :	<p>Specific References(2) SL1050R has been referenced in 2 publications.</p> <p>[IF=5.90]Zhao, Jing, et al. "Chronic obstructive sleep apnea causes atrial remodeling in canines: mechanisms and implications." Basic Research in Cardiology 109.5 (2014): 1-13.WB;Dog. PubMed:25015734</p> <p>[IF=0.00]Wang, Yu, et al. "Tanshinone II A Relieves Adriamycin-induced Myocardial Injury in Rat Model." International Journal of Chemistry 8.1 (2016): 40.WB;Rat. PubMed:not posted yet</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	40kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Connexin-40:301-358/358<Cytoplasmic>

Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	<p>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]</p> <p>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.</p> <p>Subunit: A connexon is composed of a hexamer of connexins.</p> <p>Subcellular Location: Cell membrane; Multi-pass membrane protein. Cell junction, gap junction.</p> <p>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.</p> <p>Similarity: Belongs to the connexin family. Alpha-type (group II) subfamily.</p> <p>SWISS: P36382</p>

Gene ID:
2702

Database links:

[Entrez Gene: 2702](#) Human

[Oimim: 121013](#) Human

[SwissProt: P36382](#) Human

[Unigene: 447968](#) Human

Important Note:

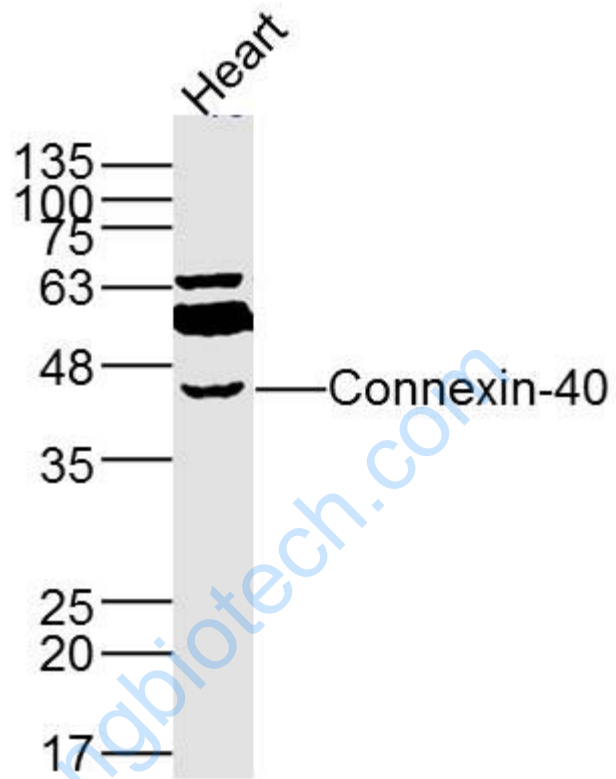
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Cx40间隙连接蛋白40

是构成细胞间的通道,小分子成份可以借此在细胞间扩散。Connexin-40也是心肌缝隙连接的主要蛋白之一。

此外,星形细胞、成纤维细胞、平滑肌和肾等组织也有表达Connexin40。

Picture:



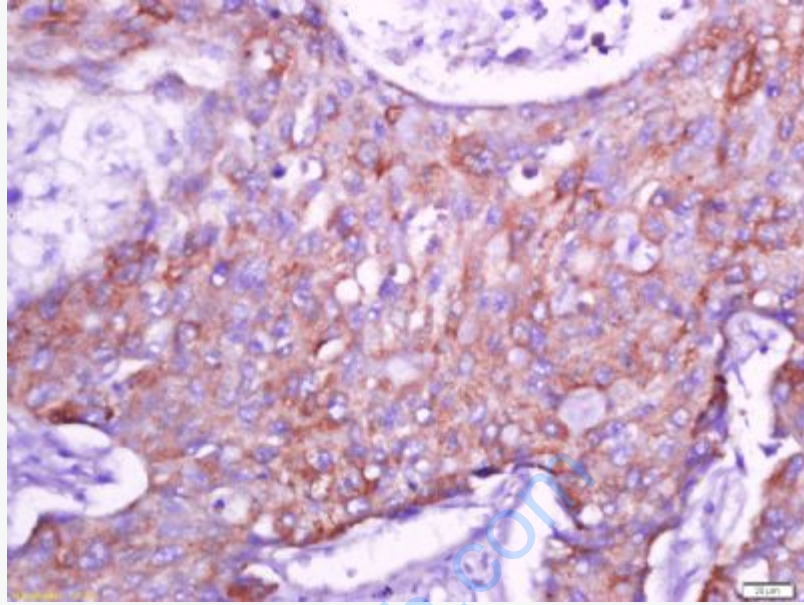
Sample: Heart (Mouse) Lysate at 40 ug

Primary: Anti-Connexin-40 (SL1050R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 40 kD

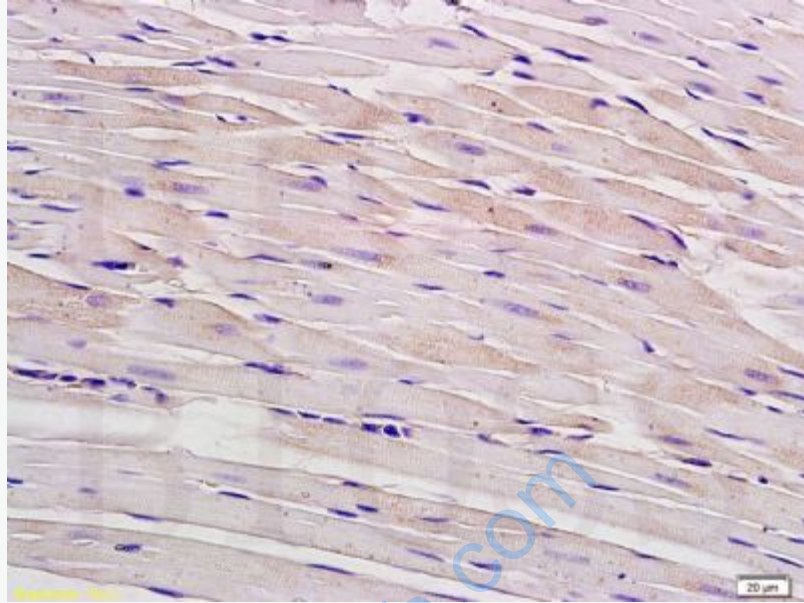
Observed band size: 40 kD



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

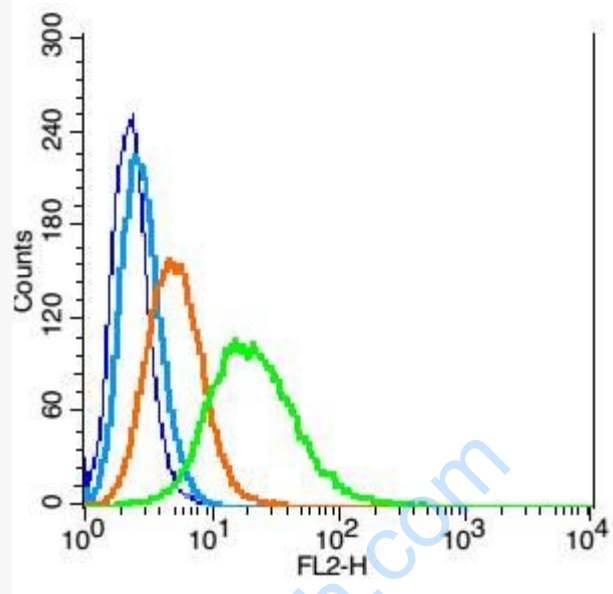
Incubation: Anti-Connexin-40 Polyclonal Antibody, Unconjugated(SL1050R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat myocardium tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Connexin-40 Polyclonal Antibody, Unconjugated(SL1050R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: RSC96(blue).

Primary Antibody: Rabbit Anti- Connexin-40 antibody(SL1050R), Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min). Antibody (SL1050R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody of bs-1050R at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.