Best Tools for immunology Research

Connexin 43 (PT0467R) PT® Rabbit mAb

Catalog No :	YM8301
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	Connexin 43
Fields :	>>Gap junction;>>Arrhythmogenic right ventricular cardiomyopathy
Gene Name :	GJA1
Protein Name :	Gap junction alpha-1 protein
Human Gene Id :	2697
Human Swiss Prot No :	P17302
Mouse Gene Id :	14609
Mouse Swiss Prot No :	P23242
Rat Gene Id :	24392
Rat Swiss Prot No :	P08050
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:200-1:1000;WB 1:2000-1:10000;IF 1:200-1:1000;ELISA 1:5000-1:20000;IP 1:50-1:200;
Purification :	Protein A

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 43kD

Observed Band : 43kD

Cell Pathway : Gap junction;Arrhythmogenic right ventricular cardiomyopathy (ARVC);

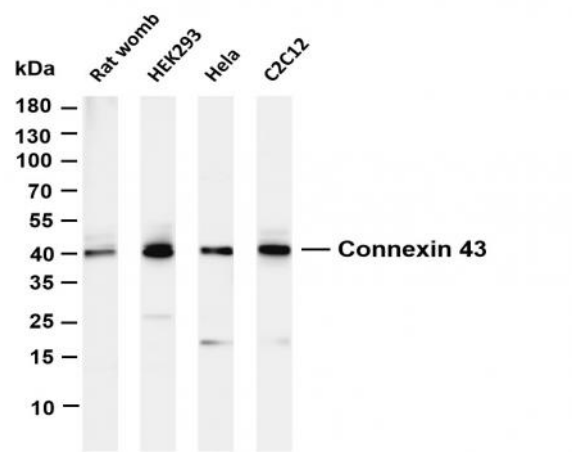
Background : This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. The encoded protein is the major protein of gap junctions in the heart that are thought to have a crucial role in the synchronized contraction of the heart and in embryonic development. A related intronless pseudogene has been mapped to chromosome 5. Mutations in this gene have been associated with oculodentodigital dysplasia, autosomal recessive craniometaphyseal dysplasia and heart malformations. [provided by RefSeq, May 2014],

Function : caution:PubMed:11741837 reported 2 mutations (Phe-11 and Ala-24) linked to non-syndromic autosomal recessive deafness (DFNBG). These mutations have subsequently been shown (PubMed:12457340) to involve the pseudogene of connexin-43 located on chromosome 5.,caution:PubMed:7715640 reported a mutation Pro-364 linked to congenital heart diseases. This was later shown (PubMed:8873667) to be an artifact.,disease:Defects in GJA1 are a cause of hypoplastic left heart syndrome (HLHS) [MIM:241550]. HLHS refers to the abnormal development of the left-sided cardiac structures, resulting in obstruction to blood flow from the left ventricular outflow tract. In addition, the syndrome includes underdevelopment of the left ventricle, aorta, and aortic arch, as well as mitral atresia or stenosis.,disease:Defects in GJA1 are the cause of autosomal dominant oculodentodigital dysplasia (ODDD) [MIM:164200]; al

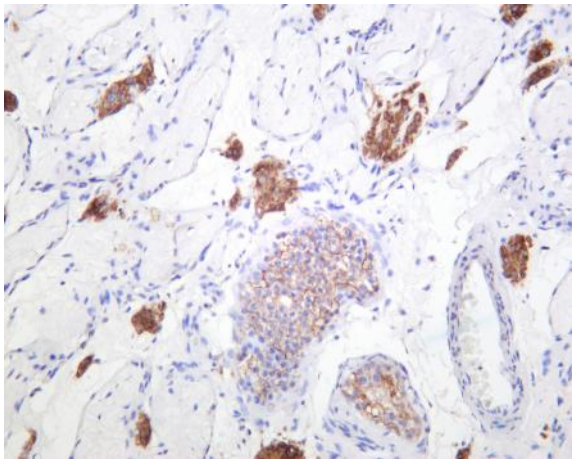
Subcellular Location : Membrane

Expression : Expressed in the heart and fetal cochlea.

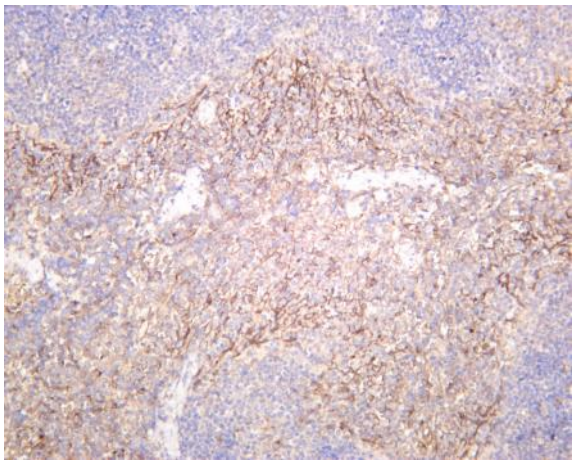
Products Images



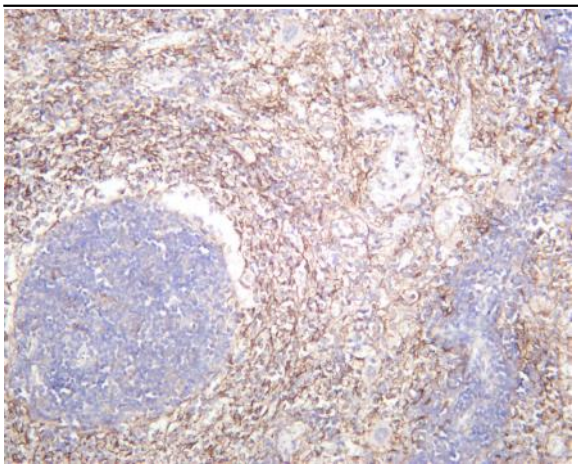
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Connexin 43 (PT0467R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Rat womb Lane 2: HEK293 Lane 3: Hela Lane 4: C2C12 Predicted band size: 43kDa Observed band size: 43kDa



Human testis was stained with anti-Connexin 43 (PT0467R) rabbit antibody



Mouse spleen was stained with anti-Connexin 43 (PT0467R) rabbit antibody



Rat spleen was stained with anti-Connexin 43 (PT0467R) rabbit antibody