

Connexin 43 (phospho Ser261) Polyclonal Antibody

Catalog No: YP0983

Reactivity: Human; Rat; Mouse;

Applications: IHC;IF;ELISA

Target: Connexin 43

Fields: >>Gap junction;>>Arrhythmogenic right ventricular cardiomyopathy

Gene Name: GJA1

Protein Name: Gap junction alpha-1 protein

P17302

P23242

Human Gene Id: 2697

Human Swiss Prot

No:

Mouse Swiss Prot

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

Connexin 43 around the phosphorylation site of Ser261. AA range:226-275

Specificity: Phospho-Connexin 43 (S261) Polyclonal Antibody detects endogenous levels of

Connexin 43 protein only when phosphorylated at S261.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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

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Molecularweight: 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 Cell membrane; Multi-pass membrane protein. Cell junction, gap junction.

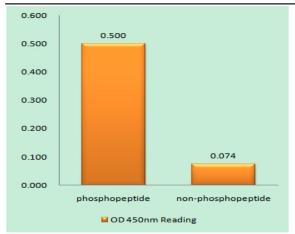
Location: Endoplasmic reticulum . Localizes at the intercalated disk (ICD) in

cardiomyocytes and the proper localization at ICD is dependent on TMEM65. .

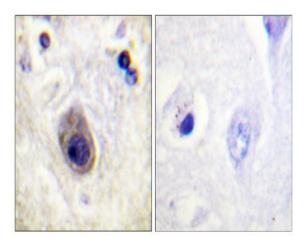
Expression: Expressed in the heart and fetal cochlea.

Products Images

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Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Connexin 43 (Phospho-Ser261) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using Connexin 43 (Phospho-Ser261) Antibody. The picture on the right is blocked with the phospho peptide.