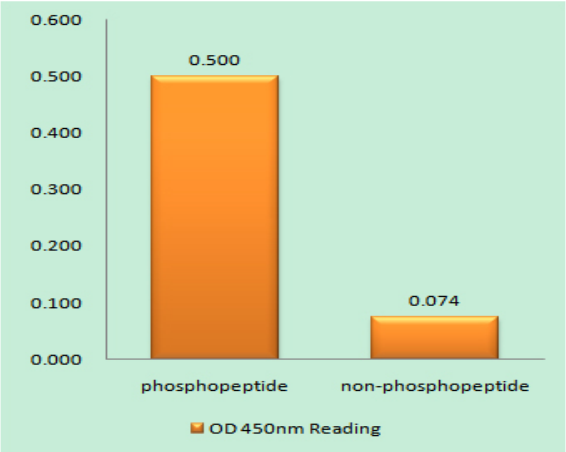
Immunoway
Best Tools for immunology Research

Connexin 43 (phospho Ser261) Polyclonal Antibody

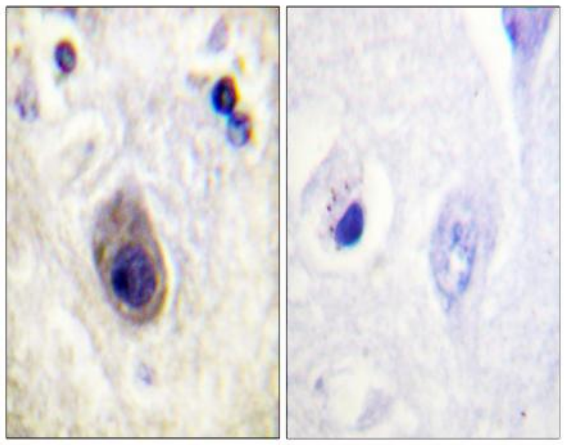
Catalog No :	YP0983
Reactivity :	Human;Rat;Mouse;
Applications :	IHC;IF;ELISA
Target :	Connexin 43
Fields :	>>Gap junction;>>Arrhythmogenic right ventricular cardiomyopathy
Gene Name :	GJA1
Protein Name :	Gap junction alpha-1 protein
Human Gene Id :	2697
Human Swiss Prot No :	P17302
Mouse Swiss Prot No :	P23242
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)

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 Location :	Cell membrane ; Multi-pass membrane protein . Cell junction, gap junction . 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.
Sort :	4416
No4 :	1

Products Images



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.