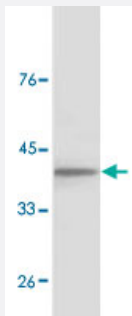


GJA1 polyclonal antibody

Catalog # PAB7966

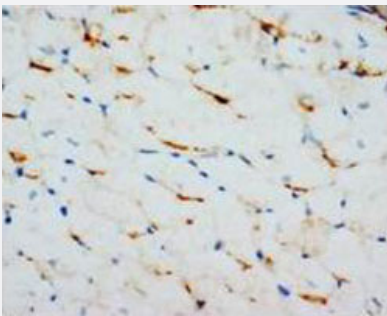
Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of rat cardiac muscle tissue lysate. Using GJA1 polyclonal antibody (Cat # PAB7966) .



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded rectal carcinoma sections, stain GJA1 in cytoplasm DAB chromogenic reaction.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of GJA1.
Immunogen	A synthetic peptide corresponding to amino acids at C-terminus of human GJA1.
Host	Rabbit
Theoretical MW (kDa)	43
Reactivity	Human, Mouse, Rat
Form	Lyophilized
Purification	Affinity purification

Isotype	IgG
Recommend Usage	Western Blot (2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of rat cardiac muscle tissue lysate. Using GJA1 polyclonal antibody (Cat # PAB7966) .

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded rectal carcinoma sections, stain GJA1 in cytoplasm DAB chromogenic reaction.

Gene Info — GJA1

Entrez GeneID	2697
Gene Name	GJA1
Gene Alias	CX43, DFNB38, GJAL, ODDD
Gene Description	gap junction protein, alpha 1, 43kDa
Omim ID	121014 164200 186100 241550 600309
Gene Ontology	Hyperlink

Gene Summary

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 and heart malformations. [provided by RefSeq]

Other Designations

OTTHUMP00000017111|connexin 43|gap junction 43 kDa heart protein|gap junction protein, alpha-like

Publication Reference

- [Comparison between renal denervation and metoprolol on the susceptibility of ventricular arrhythmias in rats with myocardial infarction.](#)

Jiang W, Chen C, Huo J, Lu D, Jiang Z, Geng J, Xu H, Shan Q.

Scientific Reports 2018 Jul; 8(1):10206.

Application: WB-Ti, Rat, Heart

- [Mutations in GJA1 \(connexin 43\) are associated with non-syndromic autosomal recessive deafness.](#)

Liu XZ, Xia XJ, Adams J, Chen ZY, Welch KO, Tekin M, Ouyang XM, Kristiansen A, Pandya A, Balkany T, Arnos KS, Nance WE.

Human Molecular Genetics 2001 Dec; 10(25):2945.

Application: IHC-P, Mouse, Mouse cochlea

- [Mutations of the Connexin43 gap-junction gene in patients with heart malformations and defects of laterality.](#)

Britz-Cunningham SH, Shah MM, Zuppan CW, Fletcher WH.

The New England Journal of Medicine 1995 May; 332(20):1323.

Application: IF, WB-Tr, Mouse, L929 Cells

Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Gap junction](#)

Disease

- [Cardiovascular Diseases](#)

- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hearing Loss](#)
- [Heart Defects](#)
- [Hypoplastic Left Heart Syndrome](#)
- [Presbycusis](#)
- [Schizophrenia](#)
- [Seizures](#)