

Product datasheet for **AP23305PU-N**

GJA1 (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: At 2µg/ml with the appropriate system to detect Connexin 43 in cells and tissues. Immunohistochemistry on paraffin sections: At 1-2µg/ml to detect Connexin 43 in formalin fixed and paraffin embedded tissues. Immunocytochemistry.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide mapping at the C-terminus of human Connexin 43
Specificity:	This antibody detects GJA1 / Cx43 at C-term. No cross reactivity with other proteins.
Formulation:	50% glycerol, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	1.2% sodium acetate or neutral PBS. If 0.5ml of PBS is used, the antibody concentration will be 100µg/ml.
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	gap junction protein alpha 1
Database Link:	Entrez Gene 14609 Mouse Entrez Gene 24392 Rat Entrez Gene 2697 Human P17302



[View online »](#)

Background:

Connexins 43 (Cx43), also called GAP Junction Protein, alpha-1(GJA1). Connexin 43 is a member of the connexin gene family which abundantly expressed in the heart and liver and was mapped to 6q21-q23.2. Connexin43, the major protein of gap junctions in the heart, is targeted by several protein kinases that regulate myocardial cell-cell coupling. Mutations in the connexin43 gap-junction gene, which lead to abnormally regulated cell-cell communication, are associated with viscerotaxia. Cx43 must also play a critical role in the physiology of hearing, presumably by participating in the recycling of potassium to the cochlear endolymph.

Synonyms:

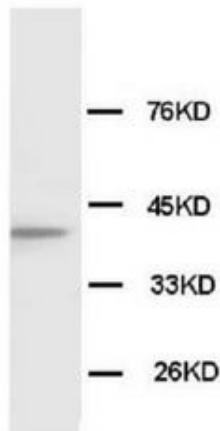
Gap junction alpha-1 protein, Connexin-43, GJAL

Protein Families:

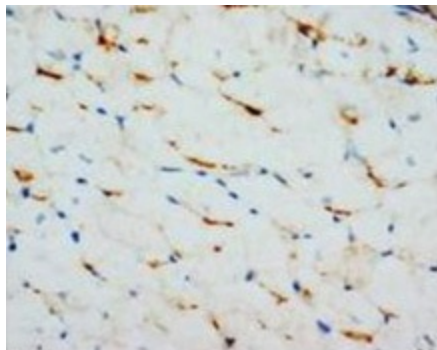
Druggable Genome, Ion Channels: Other, Transmembrane

Protein Pathways:

Arrhythmogenic right ventricular cardiomyopathy (ARVC), Gap junction

Product images:


Western blot analysis of rat cardiac muscle tissue lysis using Connexin 43 antibody



Immunohistochemical analysis of paraffin embedded rat cardiac muscle section, staining Connexin 43 in cytoplasm, DAB chromogenic reaction