

Product datasheet for **TA354757**

GJA1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to the C-terminal region with a phosphorylated Serine368 of human Connexin 43.
Formulation:	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by site-modified Epitope Affinity Purification.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	~43 kDa
Gene Name:	gap junction protein alpha 1
Database Link:	NP_000156 Entrez Gene 14609 Mouse Entrez Gene 24392 Rat Entrez Gene 2697 Human P17302



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Background:

Gap junction proteins allow the intercellular communication among adjacent cells by passing through small molecules less than 1kDa. It is very important in regulating embryonic development, excitable cell contraction, tissue homeostasis, and normal cell growth and differentiation. Gap junctions are composed of integral membrane proteins from the connexin gene family. Approximately 20 members have been cloned and characterized in humans. During intercellular channel formation, six connexin proteins oligomerize into a hemi-channel or connexon followed by connexon trafficking to the plasma membrane. The intact channel is formed when one hemi-channel docks with a second in an opposing cell. Once assembled, groups of these intercellular channels (termed gap junctional plaques) mediate the passage of amino acids, second messengers, and other metabolites between the connected cytoplasmic domains. The channels can be gated in response to various stimuli, including changes in voltage, pH, and connexin phosphorylation. Regulation of gap junctional communication could occur by controlling any one of the steps mentioned above. Phosphorylation of members of the connexin family of gap junction proteins has been correlated with gap junction assembly.

Synonyms:

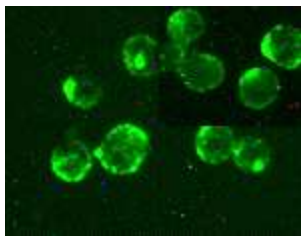
AVSD3; CMDR; CX43; EKVP; GJAL; HLHS1; HSS; ODDD; PPKCA

Protein Families:

Druggable Genome, Ion Channels: Other, Transmembrane

Protein Pathways:

Arrhythmogenic right ventricular cardiomyopathy (ARVC), Gap junction

Product images:

IF: The HeLa cell were treated by 100 nM PMA, and physically scrapped out, incubated with Rb anti-Connexin 43 (pS368), visualized by FITC-Gt anti-Rabbit IgG.