

Product datasheet

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ARG64928 anti-Connexin 43 antibody

Package: 100 μg Store at: -20°C

Summary

Product Description Goat Polyclonal antibody recognizes Connexin 43

Tested Reactivity Hu, Rat

Predict Reactivity Dog, Pig

Tested Application WB

Host Goat

Clonality Polyclonal

Isotype IgG

Target Name Connexin 43
Species Human

Immunogen C-QPFDFPDDNQNSKK

Conjugation Un-conjugated

Alternate Names Gap junction 43 kDa heart protein; CX43; PPKCA; CMDR; Gap junction alpha-1 protein; HSS; AVSD3;

Connexin-43; HLHS1; EKVP; GJAL; ODDD; Cx43

Application Instructions

Application table	Application	Dilution
	WB	0.1 - 1 μg/ml
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations	
	should be determined by the scientist.	

Properties

Form Liquid

Purification Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity

chromatography using the immunizing peptide.

Buffer Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA

Preservative 0.02% Sodium azide

Stabilizer 0.5% BSA

Concentration 0.5 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Bioinformation

Database links GeneID: 24392 Rat

GenelD: 2697 Human

Swiss-port # P08050 Rat

Swiss-port # P17302 Human

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

 $chromosome\ 5.\ Mutations\ in\ this\ gene\ have\ been\ associated\ with\ oculodento digital\ dysplasia\ and\ heart$

malformations. [provided by RefSeq, Jul 2008]

Research Area Cell Biology and Cellular Response antibody; Signaling Transduction antibody; Cardiomyocyte Cell

Surface Marker antibody

Calculated Mw 43 kDa

PTM Phosphorylated at Ser-368 by PRKCG; phosphorylation induces disassembly of gap junction plaques and

inhibition of gap junction activity (By similarity). Phosphorylation at Ser-325, Ser-328 and Ser-330 by CK1 modulates gap junction assembly. Phosphorylation at Ser-368 by PRKCD triggers its internalization

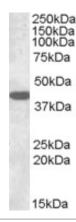
into small vesicles leading to proteasome-mediated degradation (By similarity).

Sumoylated with SUMO1, SUMO2 and SUMO3, which may regulate the level of functional Cx43 gap

junctions at the plasma membrane. May be desumoylated by SENP1 or SENP2.

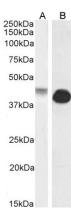
S-nitrosylation at Cys-271 is enriched at the muscle endothelial gap junction in arteries, it augments channel permeability and may regulate of smooth muscle cell to endothelial cell communication.

Images



ARG64928 anti-Connexin 43 antibody WB image

Western blot: Rat Brain lysate (35 μ g protein in RIPA buffer) stained with ARG64928 anti-Connexin 43 antibody at 0.3 μ g/ml dilution.



ARG64928 anti-Connexin 43 antibody WB image

Western blot: 35 μ g of Human (A) and Rat (B) heart lysates (in RIPA buffer) stained with ARG64928 anti-Connexin 43 antibody at 0.1 μ g/ml (A) and 1 μ g/ml (B) dilutions and incubated at RT for 1 hour.