

Connexin 43 antibody

Cat# NB-22-2409 (100 ul)

Cat# NB-22-2409-S (20 ul)

Description

Rabbit Polyclonal to Connexin 43

Product Informations

Code	NB-22-2409
Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Applications	IHC-p, ELISA, WB
Immunogen	Synthesized peptide derived from human Connexin 43 around the non-phosphorylation site of S368.
Immunogen Region	300-380 aa
Gene ID	2697
Gene Symbol	GJA1
Dilution range	WB 1:500-1:2000 IHC 1:100-1:300 ELISA 1:20000
Specificity	Connexin 43 Polyclonal Antibody detects endogenous levels of Connexin 43 protein.
Tissue Specificity	Expressed in the heart and fetal cochlea.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Protein Name	Gap junction alpha-1 proteinConnexin-43Cx43Gap junction 43 kDa heart protein
Molecular Weight	43 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.

Target

Database Links	HGNC:4274 OMIM:104100
Alternative Names	GJA1 antibody GJAL antibody Gap junction alpha-1 protein antibody Connexin-43 antibody Cx43 antibody Gap junction 43 kDa heart protein antibody
Function	Gap junction protein that acts as a regulator of bladder capacity. A gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. May play a critical role in the physiology of hearing by participating in the recycling of potassium to the cochlear endolymph. Negative regulator of bladder functional capacity: acts by enhancing intercellular electrical and chemical transmission, thus sensitizing bladder muscles to cholinergic neural stimuli and causing them to contract (By similarity). May play a role in cell growth inhibition through the regulation of NOV expression and localization. Plays an essential role in gap junction communication in the ventricles (By similarity).
Cellular Localization	Cell membrane Cell junction, gap junction Endoplasmic reticulum Note=Localizes at the intercalated disk (ICD) in cardiomyocytes and the proper localization at ICD is dependent on TMEM65.
Post-translational Modifications	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.

For reference only

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