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Connexin 43 (phospho Ser368) Polyclonal Antibody

Catalog # AP67003

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	P17302
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43008

Additional Information

Gene ID	2697
Other Names	GJA1; GJAL; Gap junction alpha-1 protein; Connexin-43; Cx43; Gap junction 43 kDa heart protein
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

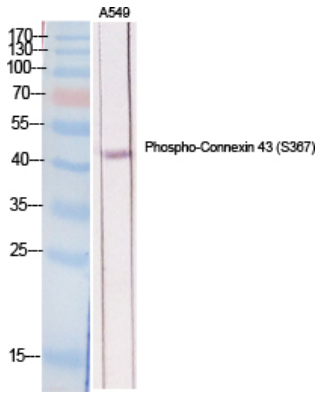
Name	GJA1
Synonyms	GJAL
Function	Structural component of the gap junction, a specialized intercellular structure consisting of a cluster of closely packed pairs of transmembrane channels, the connexons, that allow passage of small molecules and electrical signals between neighboring cells (By similarity). Forms homotypic and heterotypic channels gated by transjunctional voltage (By similarity). May play a critical role in the physiology of hearing by participating in the recycling of potassium to the cochlear endolymph (Probable). 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 the conductive system of ventricular myocardium and heart morphogenesis (By similarity). May play a role in cell growth inhibition through the regulation of NOV expression and localization (By similarity). Involved in intercellular innate immune signaling (PubMed:24077100, PubMed:31992625,

	PubMed:40010341). Mediates translocation of 2',3'-cGAMP and 2',5'-oligoadenylates (2-5A) second messengers from virus-infected cells to macrophages and uninfected neighboring cells to propagate and amplify the antiviral immune response (PubMed:24077100, PubMed:31992625, PubMed:40010341).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cell junction, gap junction. Endoplasmic reticulum {ECO:0000250|UniProtKB:P23242}. Cell junction Note=Localizes at the intercalated disk (ICD) between two adjacent cardiomyocytes and the proper localization at ICD is dependent on TMEM65. {ECO:0000250|UniProtKB:P23242}
Tissue Location	Expressed at intercalated disks in the heart (at protein level) (PubMed:11741837, PubMed:18662195, PubMed:38375917) Expressed in the fetal cochlea (PubMed:11741837). Expressed by keratinocytes in the skin (at protein level) (PubMed:26604139)

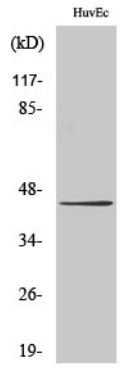
Background

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).

Images



Western Blot analysis of various cells using Phospho-Connexin 43 (S368) Polyclonal Antibody diluted at 1：2000



Western Blot analysis of HuvEc cells using Phospho-Connexin 43 (S368) Polyclonal Antibody diluted at 1：2000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.