SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-Phospho-Connexin 43 (Ser368) antibody

SL3098R

Product Name:	Phospho-Connexin 43 (Ser368)
Chinese Name:	磷酸化Connexin 43蛋白抗体
Alias:	Connexin 43(phospho-Ser368); Connexin 43(phospho Ser368); Connexin 43(phospho S368); Connexin 43; Connexin43v Cx 43v CX43; DFNB38; Gap junction 43 kDa heart protein;Connexin-43; Gap junction alpha 1 protein; Gap junction protein alpha 1 43kDa (connexin 43); Gap junction protein alpha 1 43kDa; Gap junction protein alpha like; GJA 1; GJA1; GJA-1; GJAL; HGNC:4282; HGNC:8112; Oculodentodigital dysplasia; ODD; ODOD; SDTY3; Syndactyly type III; CXA1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Monkey,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg /testIF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	43kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human Connexin 43 around the phosphorylation site of Ser368:RA(p-S)SR
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 oculodentodigital dysplasia and heart malformations. [provided by RefSeq]. **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. **Subunit:** A connexon is composed of a hexamer of connexins. Interacts (via C-terminus) with TJP1. Interacts (via C-terminus) with SRC (via SH3 domain). Interacts with UBQLN4. Interacts with SGSM3. Interacts with KIAA1432/CIP150. Interacts with CNST and CSNK1D. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. Cell junction, gap junction. **Tissue Specificity:** Expressed in the heart and fetal cochlea. **Post-translational modifications:** Phosphorylated at Ser-368 by PRKCG; phosphorylation induces disassembly of gap junction plaques and inhibition of gap junction activity. Phosphorylation at Ser-325, Ser-328 and Ser-330 by CK1 modulates gap junction assembly. **DISEASE:** Defects in GJA1 are the cause of autosomal dominant oculodentodigital dysplasia (ODDD) [MIM:164200]; also known as oculodentoosseous dysplasia. ODDD is a highly penetrant syndrome presenting with craniofacial (ocular, nasal, dental) and limb dysmorphisms, spastic paraplegia, and neurodegeneration. Craniofacial anomalies tipically include a thin nose with hypoplastic alae nasi, small anteverted nares, prominent columnella, and microcephaly. Brittle nails and hair abnormalities of hypotrichosis and slow growth are present. Ocular defects include microphthalmia, microcornea, cataracts, glaucoma, and optic atrophy. Syndactyly type 3 and conductive

deafness can occur in some cases. Cardiac abnormalities are observed in rare instances.

Similarity:
Belongs to the connexin family. Alpha-type (group II) subfamily.

SWISS:
P17302

Gene ID:
2697

Database links:

Entrez Gene: 2697Human

Entrez Gene: 281193Cow

Entrez Gene: 403418Dog

Entrez Gene: 14609Mouse

Entrez Gene: 24392Rat

Omim: 121014Human

SwissProt: P18246Cow

SwissProt: Q6S9C0Dog

SwissProt: P17302Human

SwissProt: P23242Mouse

SwissProt: Q6TYA7Rabbit

SwissProt: P08050Rat

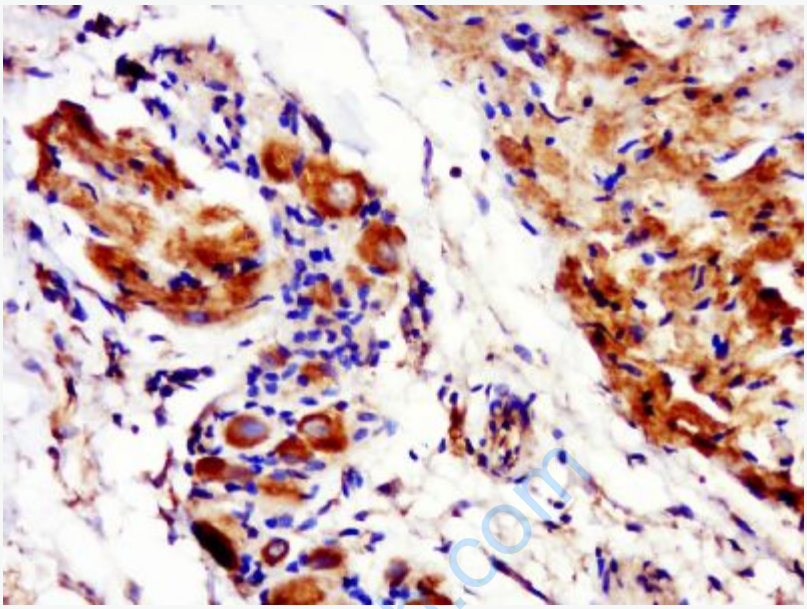
Unigene: 74471Human

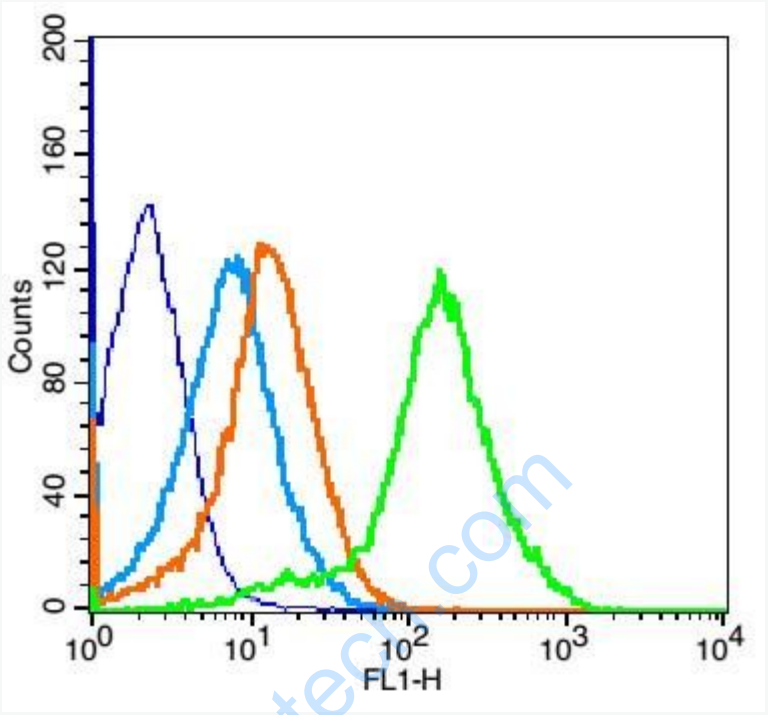
Unigene: 378921Mouse

Unigene: 10346Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

间隙连接蛋白-43(Gap junction alpha-1 protein; GJA-1; (Vascular smooth muscle connexin-43))是构成细胞间的通道，小分子成份可以借此在细胞间扩散。Connexin-43也是心肌缝隙连接的主要蛋白之一。
此外，星形细胞、成纤维细胞、平滑肌和肾等组织也有表达Connexin 43.

Picture:	 Paraformaldehyde-fixed, paraffin embedded (mouse placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (p-Connexin 43) Polyclonal Antibody, Unconjugated (SL3098R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Blank control: Mouse Kidney (fixed with 2% paraformaldehyde for 10 min at 37℃).

Primary Antibody:Rabbit Anti-Phospho-Connexin 43 (Ser368) antibody (SL3098R);

Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions;

Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.