



Rabbit Anti-Connexin-45 antibody

SL0652R

Product Name:	Connexin-45
Chinese Name:	间隙连接蛋白45抗体
Alias:	Connexin 45; Connexin45; Connexin-45; CX 31.9; CX 45; CX31.9; CX45; DKFZp686P0738; Gap junction alpha 7 protein; Gap junction alpha-7 protein; Gap junction protein alpha 7 45kDa; Gap junction protein alpha 7; Gap junction protein, gamma 1, 45kDa; GJA 7; GJA7; GJD3; Gap junction gamma-1 protein; CXG1 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	45kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Connexin-45:81-130/396
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.

Function:

One 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. A connexon is composed of a hexamer of connexins.

Subunit:

A connexon is composed of a hexamer of connexins. Interacts with CNST.

Subcellular Location:

Cell membrane; Multi-pass membrane protein. Cell junction, gap junction.

Similarity:

Belongs to the connexin family. Gamma-type subfamily.

SWISS:

P36383

Gene ID:

10052

Database links:

[Entrez Gene: 10052](#)Human

[Entrez Gene: 14615](#)Mouse

[Entrez Gene: 266706](#)Rat

[Omim: 608655](#)Human

[SwissProt: P36383](#)Human

[SwissProt: P28229](#)Mouse

[SwissProt: A4GVD1](#)Pig

[SwissProt: A4GG66](#)Rat

[Unigene: 195419](#)Rat

Important Note:

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

Channel protein(Channel Protein)

Connexin45又称缝隙连接膜Channel

protein α 7, Cx45构成细胞间的通道,小分子成份可以借此在细胞间扩散。

Connexin-45是心肌缝隙连接蛋白的主要蛋白之一。

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