

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.

Research Area Cardiovascular Signal transduction Cell adhesion molecule

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human (predicted:Mouse,Rat,Dog,Pig)
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Applications (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 45kDa

Cellular localization The cell membrane

Form 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

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

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

PubMed

[PubMed](#)

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.

**Product
Detail**

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

Channel protein (Channel Protein)

Connexin45 又称缝隙连接膜 Channel proteinalpha7, 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。