

Connexin 43 Rabbit pAb

Catalog No.: A11752SP

20 Publications

Basic Information

Observed MW

43 kDa

Calculated MW

43 kDa

Category

Primary antibody

Applications

WB, IP, IF/ICC, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

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, autosomal recessive craniometaphyseal dysplasia and heart malformations.

Recommended Dilutions

WB 1:1000 - 1:5000**IP** 0.5 µg - 4 µg antibody for
200 µg - 400 µg extracts of
whole cells**IF/ICC** 1:100 - 1:600**IHC-P** 1
500 - 1:2000**ELISA** Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on your
specific assay
requirements. For high-ratio
antibody dilutions
(≥1:10000)

Immunogen Information

Gene ID

2697

Swiss Prot

P17302

Immunogen

This information is considered to be commercially sensitive.

Synonyms

HSS; CMDR; CX43; EKVP; GJAL; ODDD; AVSD3; EKVP3; HLHS1; PPKCA; Connexin 43

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.

May contain 0.05% BSA as specified on the Certificate of Analysis.

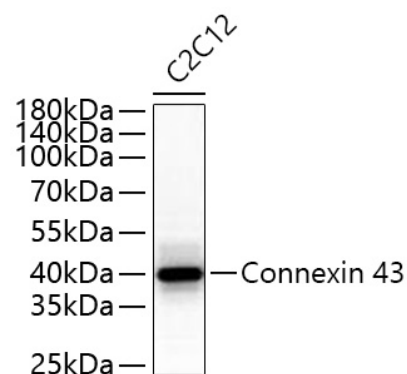
Contact

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Validation Data



Western blot analysis of lysates from C2C12 cells using Connexin 43 Rabbit pAb (A11752SP) at 1:3000 dilution incubated overnight at 4°C.

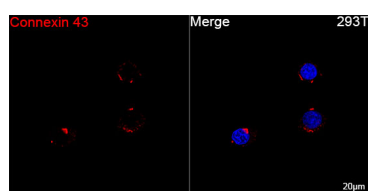
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

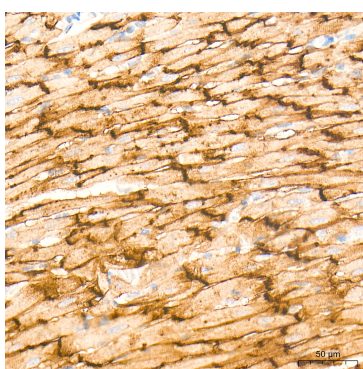
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

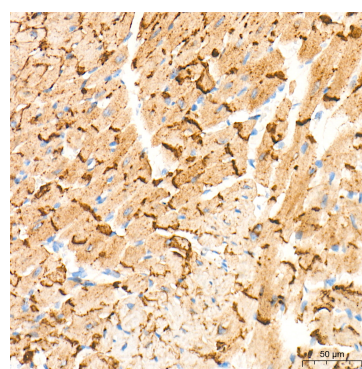
Exposure time: 45 s.



Confocal imaging of 293T cells using Connexin 43 Rabbit pAb (A11752SP, dilution 1:300) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Rat heart tissue using Connexin 43 Rabbit pAb (A11752SP) at a dilution of 1:700 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse heart tissue using Connexin 43 Rabbit pAb (A11752SP) at a dilution of 1:700 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.