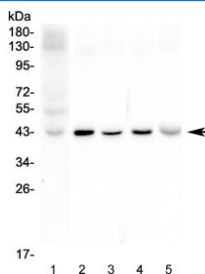


## Connexin 43 Antibody (R30200)

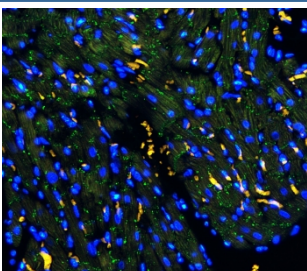
Catalog No.	Formulation	Size
R30200	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

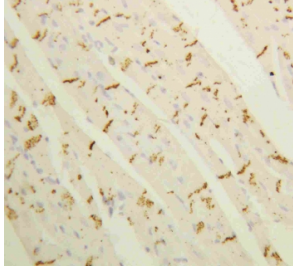
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
<b>UniProt</b>	P17302
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Immunofluorescence (FFPE) : 1-2ug/ml
<b>Limitations</b>	This Connexin 43 antibody is available for research use only.



Western blot testing 1) human placenta, 2) rat brain, 3) rat heart, 4) mouse brain and 5) mouse heart lysate with Connexin 43 antibody at 0.5ug/ml. Predicted molecular weight: ~43 kDa.



Immunofluorescent staining of FFPE rat heart tissue with Connexin 43 antibody (green) at 1ug/ml and DAPI nuclear stain. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE rat heart tissue with Connexin 43 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.

## Description

Connexin 43 (Cx43), also called GAP Junction Protein, alpha-1(GJA1), is a member of the connexin gene family which abundantly expressed in the heart and liver and was mapped to 6q21-q23.2. Connexin 43, the major protein of gap junctions in the heart, is targeted by several protein kinases that regulate myocardial cell-cell coupling. Mutations in the gene, which lead to abnormally regulated cell-cell communication, are associated with viscerotrial heterotaxia. Cx43 also plays a critical role in the physiology of hearing, presumably by participating in the recycling of potassium to the cochlear endolymph.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Connexin 43 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the C-terminus of human Connexin 43 (RASSRASSRPRPDDLEI) was used as the immunogen for this Connexin 43 antibody (100% conserved in mouse and rat).

## Storage

After reconstitution, the Connexin 43 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.