

# Connexin 43 Polyclonal antibody

Catalog Number: 26980-1-AP

69 Publications

## Basic Information

## Catalog Number:

26980-1-AP

## Concentration:

700 ug/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG25533

## GenBank Accession Number:

BC026329

## GeneID (NCBI):

2697

## UNIPROT ID:

P17302

## Full Name:

gap junction protein, alpha 1, 43kDa

## Calculated MW:

43 kDa

## Observed MW:

43-47 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:3000-1:12000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF-P 1:50-1:500

## Applications

## Tested Applications:

WB, IHC, IF-P, IP, ELISA

## Cited Applications:

WB, IHC, IF, IP, CoIP

## Species Specificity:

human, mouse, rat

## Cited Species:

human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Positive Controls:

**WB**: mouse brain tissue, mouse testis tissue, mouse heart tissue, rat brain tissue, rat heart tissue

**IP**: mouse heart tissue,

**IHC**: rat heart tissue, mouse heart tissue, human heart tissue

**IF-P**: mouse heart tissue, human heart tissue

## Background Information

Connexin-43 (Cx43, also known as gap junction alpha-1), a member of connexin family, plays essential roles in gap junction communication that facilitates direct communication among adjacent cells (PMID: 12270943). Usually, six connexin proteins oligomerize into a hemi-channel or connexon during intercellular channel formation (PMID: 12270943). Mutations of Cx43 may cause a series of diseases such as oculodentodigital dysplasia (ODDD), syndactyly 3 (SDTY3), hypoplastic left heart syndrome 1 (HLHS1) and so on (PMID: 18161618, 1472936, 1147490).

## Notable Publications

Author	Pubmed ID	Journal	Application
Kailun Zhang	34521991	Lab Invest	WB,IF
Yan Yan	36068532	Reprod Biol Endocrinol	IHC,IF
Junling Zhang	31645625	Sci Rep	WB,IHC

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

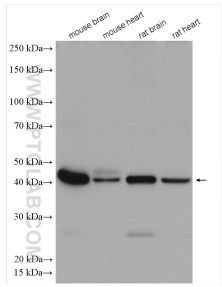
For technical support and original validation data for this product please contact:

T: 4006900926

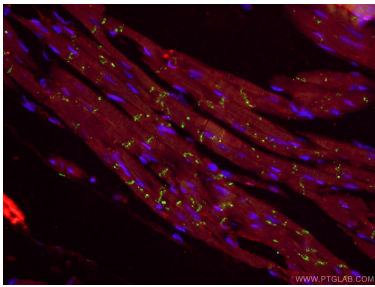
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

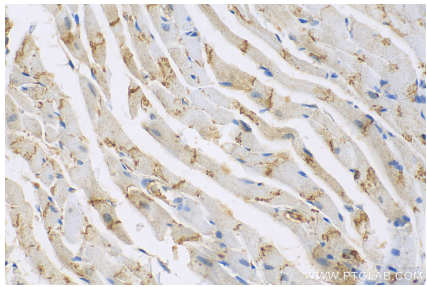
Selected Validation Data



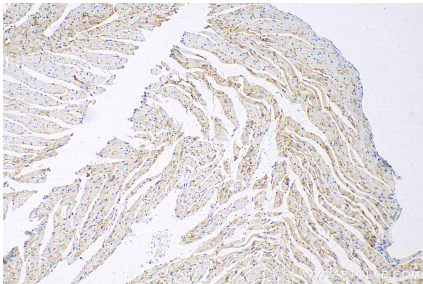
Various lysates were subjected to SDS PAGE followed by western blot with 26980-1-AP (Connexin 43 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



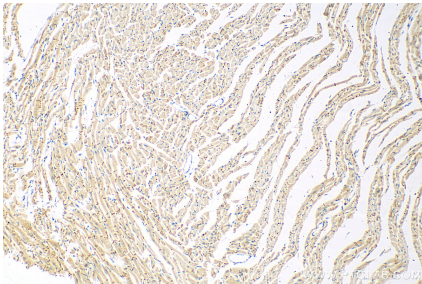
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 26980-1-AP (Connexin 43 antibody) at dilution of 1:50 and 66895-1-Ig (alpha Actinin mouse mAb) at dilution of 1:50, further stained with CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) for 26980-1-AP, and CoraLite594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) for 66895-1-Ig.



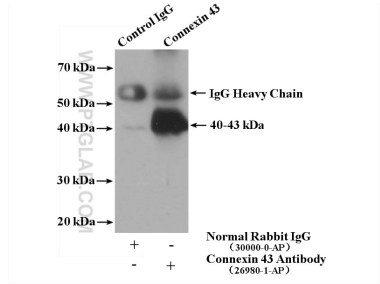
Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 26980-1-AP (Connexin 43 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



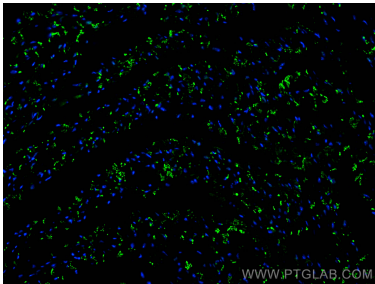
Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 26980-1-AP (Connexin 43 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



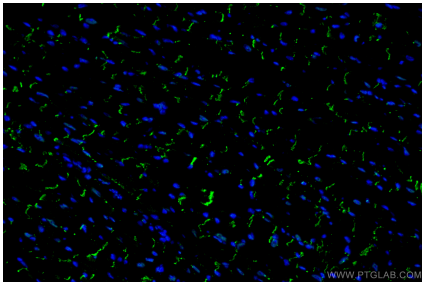
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 26980-1-AP (Connexin 43 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Connexin 43 (IP:26980-1-AP, 4ug; Detection:26980-1-AP 1:500) with mouse heart tissue lysate 4000 ug.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using Connexin 43 antibody (26980-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using Connexin 43 antibody (26980-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).