

For Research Use Only

Connexin 43 Polyclonal antibody

Catalog Number: 26980-1-AP

69 Publications



Basic Information

Catalog Number:

26980-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

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

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

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

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

*** 20ul sizes contain 0.1% BSA

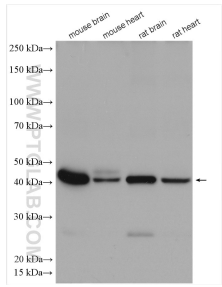
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

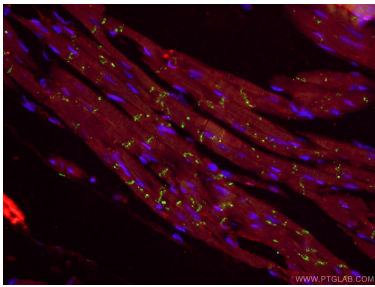
E: proteintech@ptglab.com
W: ptglab.com

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

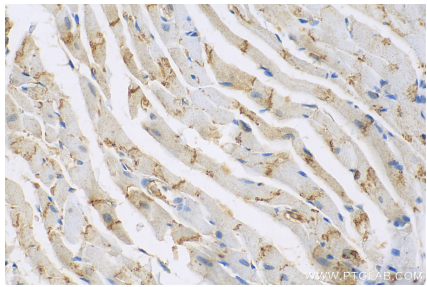
Selected Validation Data



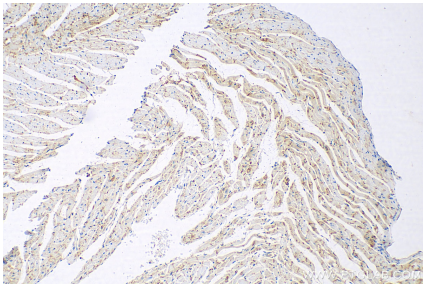
Various lysates were subjected to SDS PAGE followed by western blot with 26980-1-AP (Connexin 43 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



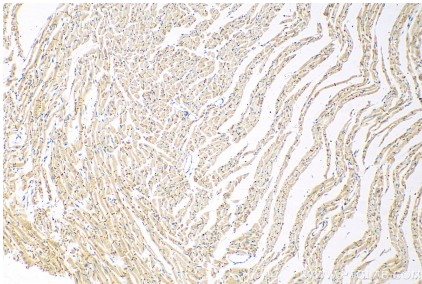
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 26980-1-AP (Connexin 43 antibody) at dilution of 1:50 and 66895-1-Ig (alpha Actinin mouse mAb) at dilution of 1:50, further stained with CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) for 26980-1-AP, and CoraLite594-Conjugated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



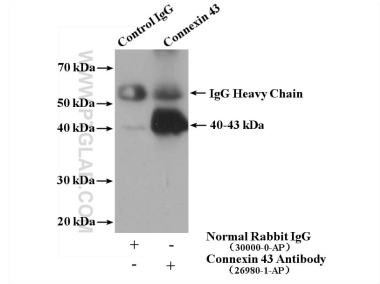
Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 26980-1-AP (Connexin 43 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



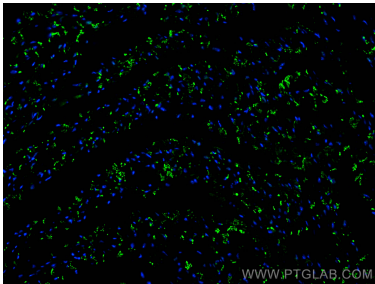
Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 26980-1-AP (Connexin 43 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



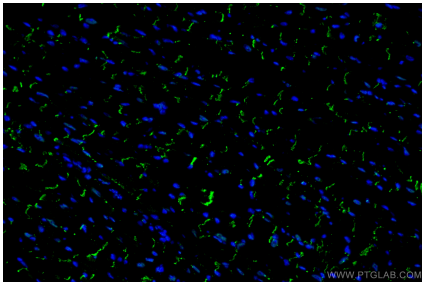
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 26980-1-AP (Connexin 43 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).