

For Research Use Only

# Connexin 43 Polyclonal antibody, PBS Only

Catalog Number: 26980-1-PBS



## Basic Information

**Catalog Number:**

26980-1-PBS

**Size:**

100ug, Concentration: 1 mg/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

## Applications

**Tested Applications:**

WB, IHC, IF-P, IP, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## 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).

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only, pH7.3

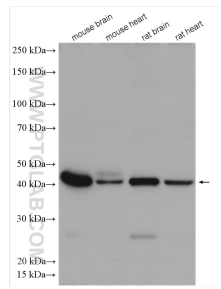
For technical support and original validation data for this product please contact:

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

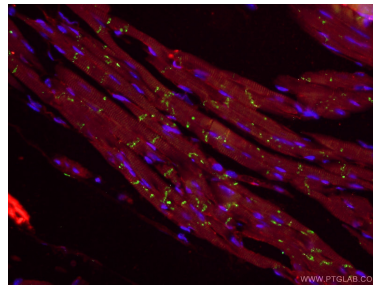
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

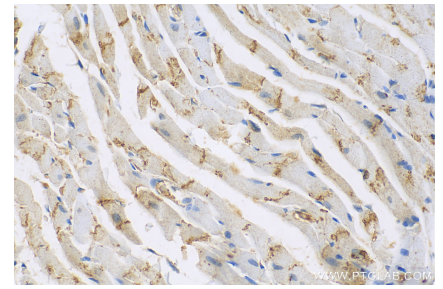
## Selected Validation Data



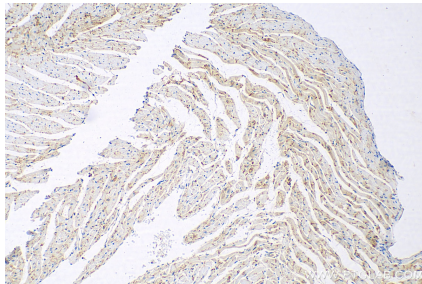
Various lysates were subjected to SDS PAGE followed by western blot with 26980-1-AP (Connexin 43 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 26980-1-PBS in a different storage buffer formulation.



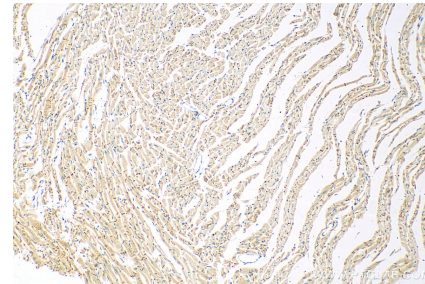
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 26980-1-AP (Connexin 43 antibody) at dilution of 1:50 and 66895-1-Ig (alpha Actinin mouse mAb) at dilution of 1:50, further stained with CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) for 26980-1-AP, and CoraLite594-Conjugated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



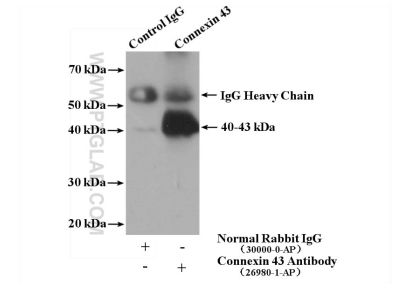
Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 26980-1-AP (Connexin 43 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 26980-1-PBS in a different storage buffer formulation.



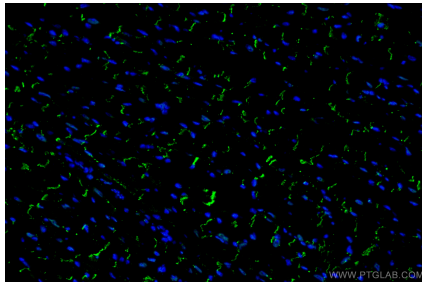
Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 26980-1-AP (Connexin 43 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 26980-1-PBS in a different storage buffer formulation.



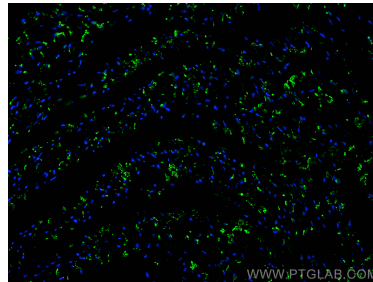
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 26980-1-AP (Connexin 43 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 26980-1-PBS in a different storage buffer formulation.



IP result of anti-Connexin 43 (IP:26980-1-AP, 4ug; Detection:26980-1-AP 1:500) with mouse heart tissue lysate 4000 ug. This data was developed using the same antibody clone with 26980-1-PBS in a different storage buffer formulation.



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-Ab CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 26980-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 26980-1-PBS in a different storage buffer formulation.