

For Research Use Only

# Connexin 43 Recombinant antibody

Catalog Number: 80543-1-RR



## Basic Information

<b>Catalog Number:</b> 80543-1-RR	<b>GenBank Accession Number:</b> BC026329	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2697	<b>CloneNo.:</b> 306
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P17302	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000 IF 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> gap junction protein, alpha 1, 43kDa	
<b>Immunogen Catalog Number:</b> AG25533	<b>Calculated MW:</b> 43 kDa	
	<b>Observed MW:</b> 43 kDa	

## Applications

**Tested Applications:**  
WB, IF, IHC, ELISA

**Species Specificity:**  
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, rat brain tissue, pig brain tissue, rat cerebellum tissue

**IHC :** mouse heart tissue,

**IF :** mouse heart tissue, HeLa cells

## 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 Connexin 43 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 -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

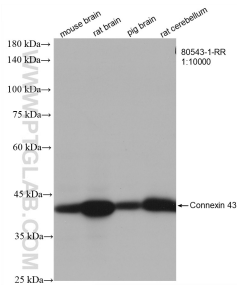
For technical support and original validation data for this product please contact:

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

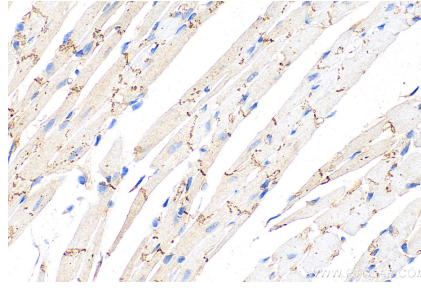
E: proteintech@ptglab.com  
W: ptglab.com

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

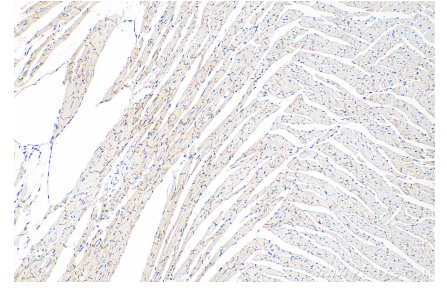
## Selected Validation Data



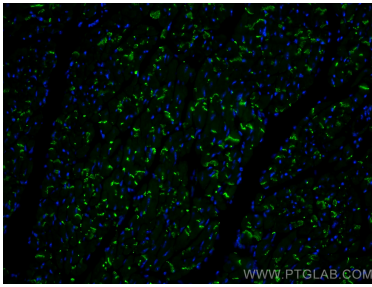
Various lysates were subjected to SDS PAGE followed by western blot with 80543-1-RR (Connexin 43 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



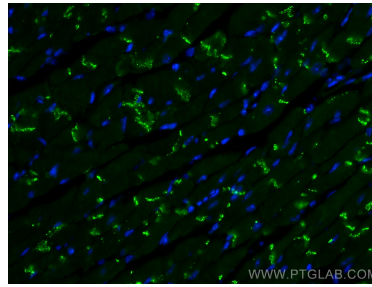
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 80543-1-RR (Connexin 43 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 80543-1-RR (Connexin 43 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Connexin 43 antibody (80543-1-RR, Clone: 3O6) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Connexin 43 antibody (80543-1-RR, Clone: 3O6) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).