

For Research Use Only

Connexin 43 Recombinant antibody

Catalog Number: 80543-1-RR



Basic Information

Catalog Number: 80543-1-RR	GenBank Accession Number: BC026329	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 2697	CloneNo.: 306
Source: Rabbit	UNIPROT ID: P17302	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF-P 1:50-1:500 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: gap junction protein, alpha 1, 43kDa	
Immunogen Catalog Number: AG25533	Calculated MW: 43 kDa	
	Observed MW: 43 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA	Positive Controls: WB : mouse brain tissue, rat brain tissue, pig brain tissue, rat cerebellum tissue IHC : mouse heart tissue, IF-P : mouse heart tissue, IF/ICC : HeLa cells,
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	

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

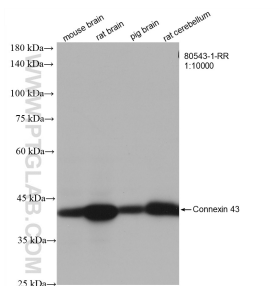
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

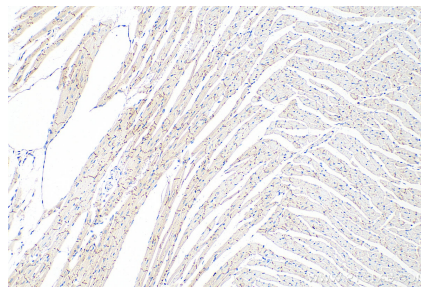
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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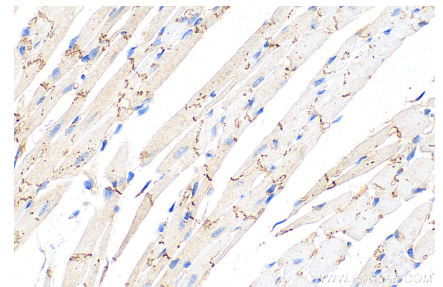
Selected Validation Data



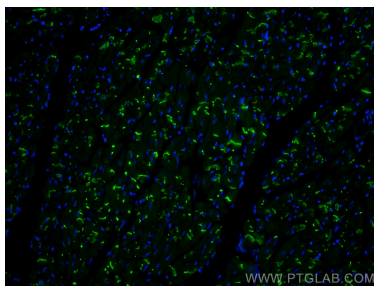
Various lysates were subjected to SDS PAGE followed by western blot with 80543-1-RR (Connexin 43 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



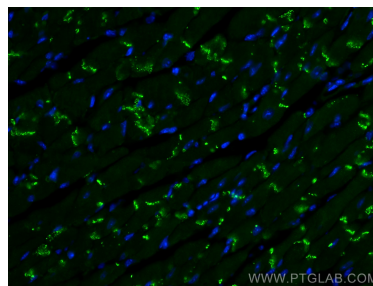
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 80543-1-RR (Connexin 43 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



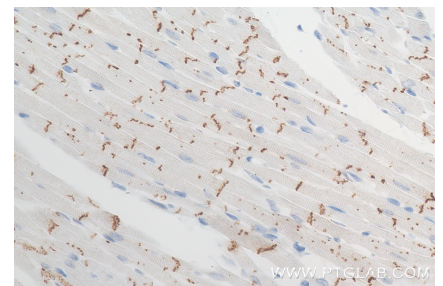
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 80543-1-RR (Connexin 43 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



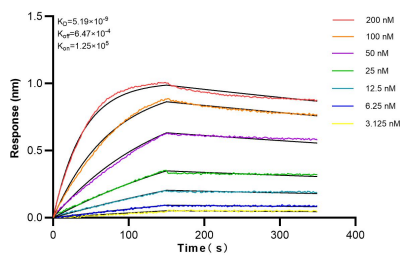
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Connexin 43 antibody (80543-1-RR, Clone: 3O6) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



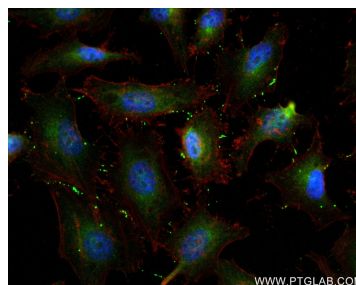
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Connexin 43 antibody (80543-1-RR, Clone: 3O6) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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).



Bioluminescence resonance energy transfer (BRET) kinetic assays of 80543-1-RR against Human Connexin 43 were performed. The affinity constant is 5.19 nM.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Connexin 43 antibody (80543-1-RR, Clone: 3O6) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).