For Research Use Only

Connexin 43 Recombinant antibody

Catalog Number:80543-1-RR



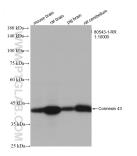
Basic Information	Catalog Number: 80543-1-RR	GenBank Accession Number: BC026329	Purification Method: Protein A purification			
	Concentration: 1000 ug/ml	GenelD (NCBI): 2697	CloneNo.: 306			
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG25533	UNIPROT ID: P17302 Full Name: gap junction protein, alpha 1, 43kDa Calculated MW: 43 kDa	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF-P 1:50-1:500 IF/ICC 1:125-1:500			
				Observed MW: 43 kDa		
				Applications	Tested Applications: Positive Co	
		WB, IHC, IF/ICC, IF-P, ELISA Species Specificity:				WB : mouse brain tissue, rat brain tissue, pig brain tissue, rat cerebellum tissue IHC : mouse heart tissue,
human, mouse, rat, pig						
Note-IHC: suggested antige TE buffer pH 9.0; (*) Alterno		e heart tissue,				
retrieval may be performed buffer pH 6.0	I with citrate IF/ICC : He	La 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 Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	I 50% glycerol pH 7.3.				

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

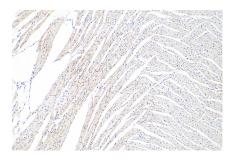
 T: 4006900926
 E: Proteintech-CN@ptglab.com
 W: ptgcn.com

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

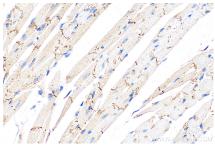
Selected Validation Data



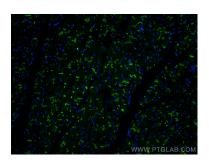
Various lysates were subjected to SDS PAGE followed by western blot with 80543-1-RR (Connexin 43 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



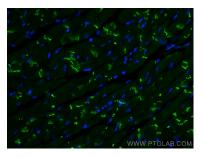
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 80543-1-RR (Connexin 43 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



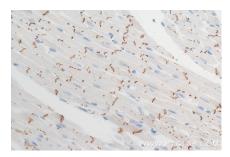
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 80543-1-RR (Connexin 43 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



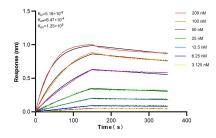
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Connexin 43 antibody (80543-1-RR, Clone: 306) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



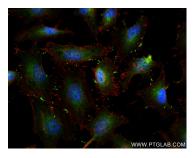
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Connexin 43 antibody (80543-1-RR, Clone: 306) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffinembedded 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).



Biolayer interferometry (BLI) 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: 306) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).