

For Research Use Only

# CoraLite® Plus 555-conjugated Connexin 43 Recombinant monoclonal antibody

Catalog Number: CL555-80543



## Basic Information

<b>Catalog Number:</b> CL555-80543	<b>GenBank Accession Number:</b> BC026329	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 2697	<b>CloneNo.:</b> 306
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P17302	<b>Recommended Dilutions:</b> IF-P: 1:50-1:500
<b>Immunogen Catalog Number:</b> AG25533	<b>Full Name:</b> gap junction protein, alpha 1, 43kDa	<b>Excitation/Emission maxima wavelengths:</b> 554 nm / 570 nm
	<b>Calculated MW:</b> 43 kDa	
	<b>Observed MW:</b> 43 kDa	

## Applications

<b>Tested Applications:</b> IF-P	<b>Positive Controls:</b> IF-P: mouse heart tissue,
<b>Species Specificity:</b> human, mouse, rat, pig	

## 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. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

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

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using CoraLite® Plus 555 Connexin 43 antibody (CL555-80543, Clone: 306) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).