**Connexin-43 Polyclonal antibody**

**Catalog Number:** 15386-1-AP  
**34 Publications**

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**Basic Information**

- **Catalog Number:** 15386-1-AP  
- **Size:** 150 μl, Concentration: 333 μg/ml by Bradford method using BSA as the standard  
- **Source:** Rabbit  
- **Isotype:** IgG  
- **Immunogen Catalog Number:** AG6698

**GenBank Accession Number:** BC026329  
**GeneID (NCBI):** 2697  
**Full Name:** gap junction protein, alpha 1, 43kDa  
**Calculated MW:** 43 kDa  
**Observed MW:** 43-47 kDa

**Purification Method:** Antigen affinity purification

**Recommended Dilutions:**
- WB: 1:500-1:2000  
- IP: 0.5-4.0 μg for IP and 1:500-1:1000 for WB  
- IHC: 1:50-1:200  
- IF: 1:50-1:500

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**Applications**

- **Tested Applications:** FC, IF, IHC, IP, WB, ELISA  
- **Cited Applications:** CoIP, IF, IHC, IP, WB  
- **Species Specificity:** human, mouse, rat  
- **Cited Species:** human, rat, mouse, bovine

**Note-IHC:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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**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).

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**Notable Publications**

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<td>Xueling He</td>
<td>28969971</td>
<td>Prog Biophys Mol Biol</td>
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<td>Hsiang-Chun Lee</td>
<td>28935953</td>
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**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**

*** 20 μl sizes contain 0.1% BSA

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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.
Immunohistochemical analysis of paraffin-embedded mouse heart using 15386-1-AP (GJA1 antibody) at dilution of 1:100 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded mouse heart using 15386-1-AP (GJA1 antibody) at dilution of 1:100 (under 40x lens).

$1 \times 10^6$ Jurkat cells were stained with 0.5ug Connexin-43 antibody (15386-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

HeLa cells were subjected to SDS PAGE followed by western blot with 15386-1-AP (GJA1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

IP Result of anti-Connexin-43 (IP:15386-1-AP, 4ug; Detection:15386-1-AP 1:500) with mouse heart tissue lysate 3200ug.

Immunofluorescent analysis of (-20℃ Ethanol) fixed HeLa cells using 15386-1-AP (Connexin-43 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).