Connexin-43 Polyclonal ANTIBODY
Catalog Number: 15386-1-AP

Basic Information
Catalog Number: 15386-1-AP
Size: mg/ml
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
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
Recommended Dilutions:
WB: 1:500-1:2000
IP: 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC: 1:50-1:200
IF: 1:50-1:500

Applications
Tested Applications:
FC, IF, IHC, IP, WB, ELISA
Cited Applications:
IF, IHC, IP, WB
Species Specificity:
human, mouse, rat
Cited Species:
calf, cow, human, mouse, rat

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).

Notable Publications
<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xueling He</td>
<td>28969971</td>
<td>Prog Biophys Mol Biol</td>
<td>WB</td>
</tr>
<tr>
<td>E O Adegoke</td>
<td>30267989</td>
<td>Ecotoxicol Environ Saf</td>
<td>IF</td>
</tr>
<tr>
<td>Hsiang-Chun Lee</td>
<td>28935953</td>
<td>Sci Rep</td>
<td>WB, IHC</td>
</tr>
</tbody>
</table>

Storage
Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS, pH 7.3.
Aliquoting is unnecessary for -20°C storage.

For Research Use Only

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

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

www.ptglab.com
Selected Validation Data

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

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

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.

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.

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)