

## Product datasheet for **AP20856PU-N**

### **GJA1 pSer367 Rabbit Polyclonal Antibody**

#### **Product data:**

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Applications:           | IHC, WB  |
| Recommended Dilution:   | <b>Western blot:</b> 1/500 - 1/1000.<br><b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200.   |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Rabbit   |
| Clonality:              | Polyclonal   |
| Specificity:            | This antibody detects endogenous levels of Connexin 43 protein when phosphorylated at Ser367.  |
| Formulation:            | Phosphate buffered saline (PBS), pH 7.2.<br>State: Aff - Purified<br>State: Liquid purified Ig fraction<br>Preservative: 15 mM sodium azide                                |
| Concentration:          | 1.0 mg/ml  |
| Purification:           | Affinity chromatography (> 95% (by SDS-PAGE)   |
| Conjugation:            | Unconjugated   |
| Storage:                | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.   |
| Stability:              | Shelf life: one year from despatch.  |
| Predicted Protein Size: | ~ 43 kDa   |
| Gene Name:              | gap junction protein alpha 1   |
| Database Link:          | <u><a href="#">Entrez Gene 14609 Mouse</a></u> <u><a href="#">Entrez Gene 24392 Rat</a></u> <u><a href="#">Entrez Gene 2697 Human</a></u><br><u><a href="#">P17302</a></u> |



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**Background:**

The connexins are a group of GAP junction proteins, which form a hexamer to compose a connexon. Clusters of connexons form a GAP junction through which low molecular weight proteins may diffuse from cell to cell. Several mammalian cells with malignant phenotypes exhibit decreased connexin expression and GAP junction communication. There is a decrease in GAP junctional communication in Src transformed cells. The decreased communication appears to be associated with tyrosine phosphorylation of connexin 43. Activated c-Src phosphorylates the C-terminal tail of connexin 43 on residue Tyr 265, resulting in a stable interaction between both proteins leading to inhibition of GAP junctional communication. In addition to tyrosine phosphorylation, connexin 43 has also been shown to be phosphorylated on serine in the absence of Src kinases and on both serine and tyrosine in cells expressing Src kinases such as pp60v-Src and/or c-Src.

**Synonyms:**

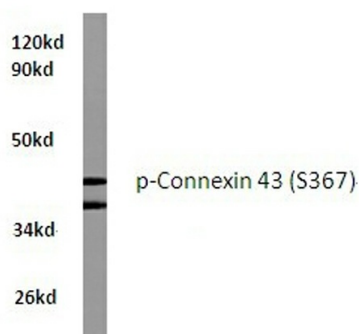
Gap junction alpha-1 protein, Connexin-43, GJAL

**Protein Families:**

Druggable Genome, Ion Channels: Other, Transmembrane

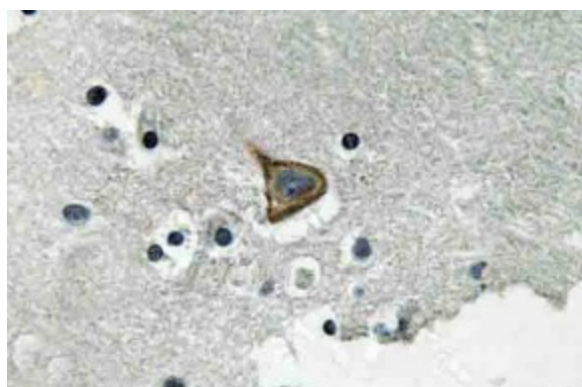
**Protein Pathways:**

Arrhythmogenic right ventricular cardiomyopathy (ARVC), Gap junction

**Product images:**

Jurkat whole cell lysate  
p-Connexin 43 (S367) pAb at 1:500 dilution

Western blot (WB) analyzes of p-Connexin 43 antibody (Cat.-No.: AP20856PU-N) in extracts from Jurkat cells.



Immunohistochemistry (IHC) analyzes of p-Connexin 43 antibody (Cat.-No.: AP20856PU-N) in paraffin-embedded human brain tissue.