

## Product datasheet for **AP05931PU-N**

### **GJA1 pSer368 Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	WB
<b>Recommended Dilution:</b>	Western Blot: 1:1000; detects a band of approximately 43kDa in rat hippocampus cell lysates.
<b>Reactivity:</b>	Bovine, Canine, Chicken, Guinea Pig, Human, Mouse, Rat, Zebrafish
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Synthetic phosphopeptide corresponding to an amino acid sequence within connexin43 which includes phosphorylated Ser368
<b>Specificity:</b>	This antibody specifically recognises 43kDa Connexin43, when phosphorylated at Ser368.
<b>Formulation:</b>	10mM HEPES, pH7.5 containing 0.09% Sodium Azide, 0.01% Bovine Serum Albumin, 50% Glycerol State: Purified State: Liquid purified Ig
<b>Purification:</b>	Affinity chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	gap junction protein alpha 1
<b>Database Link:</b>	<a href="#">Entrez Gene 2697 Human P17302</a>



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**Background:**

Connexin43 (CX43) allows for the exchange of solutions between neighbouring cells through the formation of gap-junctional channels and is expressed in the brain, kidneys and myocardium, as well as vascular endothelial cells. Studies suggest that a decrease in the permeability of gap-junctional channels occurs due to a conformational change in the structure of CX43, and that this is mediated by the phosphorylation of CX43 at residue Ser368, by Protein Kinase C (PKC).

A possible link between CX43 and epilepsy has been investigated following the detection of high levels of CX43 in both low-grade tumours and peritumoural reactive astrocytes (3).

**Synonyms:**

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