



Datasheet for ABIN6256297

## anti-Connexin 43/GJA1 antibody (pSer368)



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5 Images

1 Publication

### Overview

Quantity:	100 µL
Target:	Connexin 43/GJA1 (GJA1)
Binding Specificity:	pSer368
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Connexin 43/GJA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

### Product Details

Immunogen:	A synthesized peptide derived from human Connexin 43 / GJA1 around the phosphorylation site of Ser368.
Isotype:	IgG
Specificity:	Phospho-Connexin 43 / GJA1 (Ser368) Antibody detects endogenous levels of Connexin 43 / GJA1 only when phosphorylated at Serine 368.
Predicted Reactivity:	Pig,Bovine,Sheep,Rabbit,Dog
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

## Target Details

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Target:	Connexin 43/GJA1 (GJA1)
Alternative Name:	GJA1 ( <a href="#">GJA1 Products</a> )
Background:	<p>Description: Gap junction protein that acts as a regulator of bladder capacity. A gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. May play a critical role in the physiology of hearing by participating in the recycling of potassium to the cochlear endolymph. Negative regulator of bladder functional capacity: acts by enhancing intercellular electrical and chemical transmission, thus sensitizing bladder muscles to cholinergic neural stimuli and causing them to contract (By similarity). May play a role in cell growth inhibition through the regulation of NOV expression and localization. Plays an essential role in gap junction communication in the ventricles (By similarity).</p> <p>Gene: GJA1</p>
Molecular Weight:	43kDa
Gene ID:	2697
UniProt:	<a href="#">P17302</a>
Pathways:	<a href="#">MAPK Signaling</a> , <a href="#">Myometrial Relaxation and Contraction</a> , <a href="#">Cell-Cell Junction Organization</a>

## Application Details

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Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

## Handling

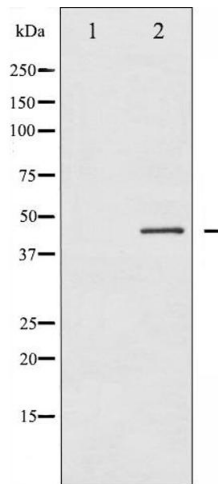
Storage Comment: Store at -20 °C. Stable for 12 months from date of receipt.

Expiry Date: 12 months

## Publications

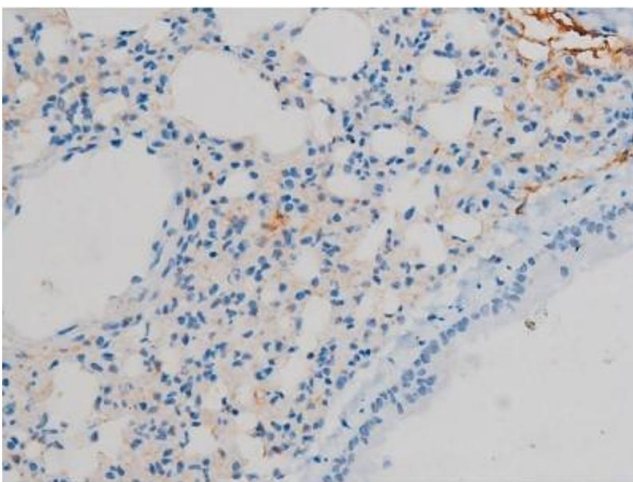
Product cited in: Liu, Li, Shu, Xiao, Feng: "Ephrin-b3 modulates hippocampal neurogenesis and the reelin signaling pathway in a pilocarpine-induced model of epilepsy." in: **International journal of molecular medicine**, Vol. 41, Issue 6, pp. 3457-3467, (2018) ([PubMed](#)).

## Images



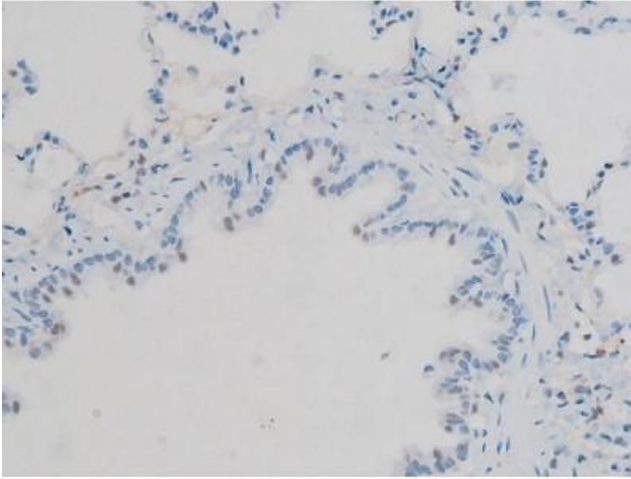
### Western Blotting

**Image 1.** Western blot analysis of Connexin 43 phosphorylation expression in PMA treated K562 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



### Immunohistochemistry

**Image 2.** ABIN6267410 at 1/200 staining Mouse lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



### Immunohistochemistry

**Image 3.** ABIN6267410 at 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6256297.