OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA389106

GJA1 Mouse Antibody [Clone ID: M496]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M496
Applications:	ICC, WB
Recommended Dilution:	**WB**: 1:1000 **ICC**: 1:100
Reactivity:	Human, Rat, Mouse, Chicken
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone M496 was generated from a peptide fragment in the C-terminal region of human connexin-43. This sequence is highly conserved in mouse and rat connexin-43.
Specificity:	The antibody detects a 43 kDa* protein corresponding to the apparent molecular mass of connexin-43 on SDS-PAGE immunoblots of mouse brain. The antibody is also useful for immunofluorescent labeling of gap junctions in cells.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Concentration:	lot specific
Purification:	Antigen Affinity Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	43
Database Link:	P17302

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Background: Connexin-43 (Cx43, CXA1, Gap Junction α1) is a member of the large family of gap junction proteins. Connexins assemble as a hexamer and are transported to the plasma membrane to create a hemichannel that can associate with hemichannels on nearby cells to create cell-to-cell channels that cluster together to form gap junctions. Gap junction communication is critical for cell to cell communication during development and regulation of cell growth. Phosphorylation of connexin-43 is important in regulating both the assembly and the function of gap junctions. PKC phosphorylates Ser-368 in connexin-43 after activation of cells with phorbol esters. This phosphorylation event decreases cell-to-cell communication. In addition, the tyrosine kinase, c-Src, can interact with and phosphorylate Tyr-265 in connexin-43 leading to inhibition of gap junction communication. Thus, connexin-43 phosphorylation may be an important mode for regulating gap junctional communication.

Note: Protein G purified tissue culture supernatant.