

Anti-Connexin-43 (C-terminal region) Antibody

Catalog # AN1720

Specification

Anti-Connexin-43 (C-terminal region) Antibody - Product Information

Application WB
Primary Accession P17302

Reactivity Bovine, Chicken

Host Mouse

Clonality Mouse Monoclonal

Isotype IgG1
Calculated MW 43008

Anti-Connexin-43 (C-terminal region) Antibody - Additional Information

Gene ID **2697**

Other Names

Gap junction alpha-1 43 GJA1 CXA1

Target/Specificity

Connexin-43 (Cx43, CXA1, Gap Junction $\alpha 1$) 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.

Dilution

WB~~1:1000

Format

Antigen Affinity Purified

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-Connexin-43 (C-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

Blue Ice

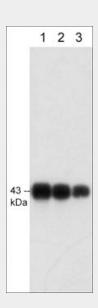


Anti-Connexin-43 (C-terminal region) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-Connexin-43 (C-terminal region) Antibody - Images



Western blot analysis of connexin-43 expression in adult mouse brain (lanes 1-3). The blots were probed with mouse monoclonal anti-connexin-43 at 1:250 (lane 1), 1:500 (lane 2), and 1:1000 (lane 3).

Anti-Connexin-43 (C-terminal region) Antibody - Background

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