

Resource Summary Report

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Connexin 43 Antibody

RRID:AB_2294590

Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 3512, RRID:AB_2294590

Antibody Information

URL: http://antibodyregistry.org/AB_2294590

Proper Citation: Cell Signaling Technology Cat# 3512, RRID:AB_2294590

Target Antigen: Connexin 43

Host Organism: rabbit

Clonality: polyclonal

Comments: Applications: W, IHC-P, IHC-F, IF-F, IF-IC. Consolidation on 9/2016: AB_10695896. Info: Used By NYUIHC-970.

Info: Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:TRUE, NonFunctional in animal:FALSE

Antibody Name: Connexin 43 Antibody

Description: This polyclonal targets Connexin 43

Target Organism: rat, porcine, h, canine, (dg, m, mouse, r, non-human primate, pg), z, human, mk

Antibody ID: AB_2294590

Vendor: Cell Signaling Technology

Catalog Number: 3512

Alternative Catalog Numbers: Used By NYUIHC-970

Record Creation Time: 20250820T062525+0000

Record Last Update: 20250821T000504+0000

Ratings and Alerts

- Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:FALSE, NonFunctional in human:FALSE, Functional in animal:TRUE, NonFunctional in animal:FALSE - NYU Langone's Center for Biospecimen Research and Development <https://med.nyu.edu/research/scientific-cores-shared-resources/center-biospecimen-research-development>

No alerts have been found for Connexin 43 Antibody.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 45 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Denaro S, et al. (2026) Connexin Regulation and Modulation of Neural Stem Cell Differentiation Induced by Cell-Permeable Itaconate. *Journal of cellular physiology*, 241(5), e70185.

Wang CY, et al. (2026) Heart failure pleural fluid impairs endothelial barrier through miR 501-3p mediated ZO 1 remodeling. *iScience*, 29(5), 115549.

Denaro S, et al. (2026) PARP1 rewires neuroinflammatory and redox metabolism associated with reactive neuroglia in neuropathic pain. *Redox biology*, 95, 104268.

Assaf S, et al. (2026) Glioblastoma stem cell growth requires DOT1L-MED23 control of enhancer accessibility. *Cell reports*, 45(7), 117647.

Salazar MPR, et al. (2025) Mitochondrial fission controls astrocyte morphogenesis and organization in the cortex. *bioRxiv : the preprint server for biology*.

Mulkearns-Hubert EE, et al. (2025) Connexin 43 drives glioblastoma cancer stem cell phenotypes through a WNK lysine-deficient protein kinase 1-c-MYC signaling axis. *Cell reports*, 44(9), 116303.

Wang HQ, et al. (2025) Ginsenoside Rg1 alleviates chronic stress-induced depression in rats by targeting Cx43-YAP axis. *Acta pharmacologica Sinica*, 46(7), 1877.

Smith NR, et al. (2025) Dual states of murine Bmi1-expressing intestinal stem cells drive epithelial development utilizing non-canonical Wnt signaling. *Developmental cell*, 60(16), 2177.

- Feeney AK, et al. (2025) Enhancing human pluripotent stem cell differentiation to cardiomyocytes through cardiac progenitor reseeded and cryopreservation. *iScience*, 28(5), 112452.
- Ouellette A, et al. (2025) Lysyl Oxidases Are Necessary for Myometrial Contractility and On-time Parturition in Mice. *Journal of the Endocrine Society*, 9(5), bvaf028.
- Rodriguez Salazar MP, et al. (2025) Mitochondrial fission controls astrocyte morphogenesis and organization in the cortex. *The Journal of cell biology*, 224(10).
- Feng R, et al. (2025) Endothelin B receptor inhibition rescues aging-dependent neuronal regenerative decline. *eLife*, 13.
- Pelz L, et al. (2024) The IgCAM BT-IgSF (IgSF11) is essential for connexin43-mediated astrocyte-astrocyte coupling in mice. *eNeuro*, 11(3).
- Pun R, et al. (2024) PKC γ promotes keratinocyte cell migration through Cx43 phosphorylation-mediated suppression of intercellular communication. *iScience*, 27(3), 109033.
- Denaro S, et al. (2024) Sigma-1 receptor targeting inhibits connexin 43 based intercellular communication in chronic neuropathic pain. *Inflammation research : official journal of the European Histamine Research Society ... [et al.]*, 73(10), 1711.
- Norris RP, et al. (2024) Granulosa Cells Alone, Without Theca Cells, Can Mediate LH-induced Oocyte Meiotic Resumption. *Endocrinology*, 165(3).
- Leinung N, et al. (2023) Dynamic association of the intramembrane proteases SPPL2a/b and their substrates with tetraspanin-enriched microdomains. *iScience*, 26(10), 107819.
- Denaro S, et al. (2023) Sigma-1 Receptor Inhibition Reduces Mechanical Allodynia and Modulate Neuroinflammation in Chronic Neuropathic Pain. *Molecular neurobiology*.
- Yu J, et al. (2023) Neurotrophins and Their Receptors, Novel Therapeutic Targets for Pelvic Pain in Endometriosis, Are Coordinately Regulated by IL-1 γ via the JNK Signaling Pathway. *The American journal of pathology*, 193(8), 1046.
- Garella R, et al. (2023) Defining the Molecular Mechanisms of the Relaxant Action of Adiponectin on Murine Gastric Fundus Smooth Muscle: Potential Translational Perspectives on Eating Disorder Management. *International journal of molecular sciences*, 24(2).