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**anti-Connexin 43**

Cat #: HM1094  
Rabbit polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

The connexins are gap junction proteins which form hexamer to compose a connexon. Clusters of connexons form gap junctions which provide a route for the diffusion of materials of low molecular weight from cell to cell. Gap junctions play a variety of physiological functions. Many malignant cells exhibit decreased connexin expression and gap junction communication. There is a decrease in gap junctional communication in src-transformed cells. Mutations of the connexin 32 gene have been shown to be the cause of Charcot-Marie-Tooth disease, which is an inherited demyelinating neuropathy. Connexin 43 (alpha 1) is the major protein of gap junctions in the heart, and gap junctions are thought to have a crucial role in the synchronized contraction of the heart and in embryonic development. Connexin 43 is targeted by several protein kinases that regulate myocardial cell-cell coupling.

**SPECIFICITY**

This antibody reacts with connexin 43 of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry.

**IMMUNOGEN**

A peptide corresponding to the carboxy terminus of human connexin 43

**STORAGE**

This antibody is stable for 12 months when stored at 2-8°C.

**REFERENCES**

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