
anti-connexin 26

Cat #: HM1093
Rabbit polyclonal IgG
0.2 µg/µ, 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. Mutations in the connexin26 gene are a major cause of inherited and apparently sporadic congenital deafness.

SPECIFICITY

This antibody reacts with connexin 26 and, to a lesser extent, connexin 30 of mouse, rat and human origin by Western blotting and immunohistochemistry.

IMMUNOGEN

A peptide at the amino terminus of human connexin 26.

STORAGE

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

REFERENCE

1. Manjunath, C.K., Goings, G.E., and Page, E. 1987. Human cardiac gap junctions: isolation, ultrastructure, and protein composition. *J. Mol. Cell. Cardiol.* 19: 131-134.
2. Kanemitsu, M.Y., Loo, L.W., Simon, S., Lau, A.F., and Eckhart, W. 1997. Tyrosine phosphorylation of connexin 43 by v-Src is mediated by SH2 and SH3 domain interactions. *J. Biol. Chem.* 272: 22824-22831.
3. Orsino, A., Taylor, C.V., and Lye, S.J. 1996. Connexin-26 and connexin-43 are differentially expressed and regulated in the rat myometrium throughout late pregnancy and with the onset of labor. *Endocrinol.* 137: 1545-1553.
4. Bone, L.J., Deschenes, S.M., Balice-Gordon, R.J., Fischbeck, K.H., and Scherer, S.S. 1997. Connexin32 and x-linked Charcot-Marie-Tooth disease.
5. Estivill, X., Fortina, P., Surrey, S., Rabionet, R., et al. (1998) Connexin-26 mutations in sporadic and inherited sensorineural deafness. *Lancet* 351, 394-398.
6. Kelsell, D.P., Dunlop, J., Stevens, H.P., Lench, N.J., Liang, J.N., Parry, G., Mueller, R.F. and Leigh, I.M. (1997)

Connexin 26 mutations in hereditary non-syndromic sensorineural deafness. *Nature* 387, 80-83.

7. Sheen, I.S., Jeng, K.S., Wang, P.C., Shih, S.C., Chang, W.H., Wang, H.Y., Chen, C.C. and Shyung, L.R. (2004) Are gap junction gene connexins 26, 32 and 43 of prognostic values in hepatocellular carcinoma? A prospective study. *World J. Gastroenterol.* 10, 2785-2790.

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