

**RABBIT ANTI-MOUSE CONNEXIN 43 (Cx43)  
AFFINITY PURIFIED ANTIBODY**

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| <b>CATALOG NUMBER:</b>       | AB1727  |
| <b>LOT NUMBER:</b>           |   |
| <b>QUANTITY:</b>             | 50 µg   |
| <b>DESCRIPTION:</b>          | Mouse Connexin 43 (Cx43, Gap Junction alpha-1 protein, CxA-1) is a 382 amino acid gap junction protein with a predicted M.W. of ~43 kDa. It is prominently expressed in heart (see reviews in reference 1).   |
| <b>IMMUNOGEN:</b>            | Anti-Connexin 43 is made against a 19 amino acid C-terminal peptide sequence within the cytoplasmic domain of mouse Cx43 (2). Peptide was coupled to KLH (carrier protein).   |
| <b>APPLICATIONS:</b>         | ELISA: 1:10,000-100,000 using 50 - 100 ng Cx43 control peptide per well.<br>Immunohistochemistry: not tested. It is recommended that the antibody be tried at 2-20µg/mL in formaldehyde fixed (3).<br>Immunoblotting: 1-10µg/mL using Chemiluminescence technique.<br>Optimal working dilutions must be determined by end user.   |
| <b>SPECIES REACTIVITIES:</b> | Mouse Cx43 immunogenic peptide sequence is specific for Cx43 and no significant homology is seen with other connexins. The mouse Cx43 peptide sequence shows homology of 100% with rat and bovine, and 84% with chicken and human (16/19 aa) Cx43 (3).  |
| <b>FORMAT:</b>               | Affinity-purified using peptide-Sepharose column chromatography and supplied at 1.0 mg/mL in 100 mM Tris, pH 7.5, containing 0.2% BSA and 0.05% sodium azide.   |
| <b>STORAGE/HANDLING:</b>     | Store at -20°C in undiluted aliquots. Antibodies may be stored at 4°C for short-term use. Avoid repeated freeze-thaw cycles.  |
| <b>REFERENCES:</b>           | 1. Kumar, N. and Giula, N. (1996) <i>Cell</i> <b>84</b> : 381-388. White, W., et al. (1995) <i>Kidney Intl.</i> <b>48</b> : 1148-1157. Evans, H. (1994) <i>Biochem. Soc. Tr.</i> 788-792. Byer, E., et al. (1990) <i>J. Membrane Biol.</i> <b>116</b> : 187-194.<br>2. Beyer, E. and Steinberg, T. (1991) <i>JBC</i> <b>266</b> : 7971. Nishi, M. et al. (1991) <i>Dev. Biol.</i> <b>146</b> : 117. Hennemann, H. et al. (1992) <i>J Cell Biol.</i> <b>117</b> : 1299.<br>3. Beyer, E. et al. (1985) <i>JCB</i> <b>105</b> : 2621. Nicholson, B. et al. (1985) <i>JBC</i> <b>260</b> : 6514. John, S. et al. (1991) <i>BBRC</i> <b>178</b> : 1312. Fishman, G. et al. (1990) <i>JCB</i> <b>111</b> : 589-598. |

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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