



Polyclonal Anti-Connexin 26 (Sepharose Bead Conjugate)

Catalogue No. PA1025-S

Lot No. 03A01

Ig type: rabbit

IgG Size: 100µg/vial

Specificity

Human, mouse, rat. No cross reactivity with other proteins.

Recommended application

Immunoprecipitation(IP)

Immunogen

A peptide mapping at the middle region of rat Connexin 26, different from the relative sequence of human by three amino acids.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃a₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

BACKGROUND

Connexin26(CX26), also known as GAP junction protein, beta2, GJB2. Gap junctions were first characterized by electron microscopy as regionally specialized structures on plasma membranes of contacting adherent cells. These structures were shown to consist of cell-to-cell channels. Proteins, called connexins, purified from fractions of enriched gap junctions from different tissues differ. The 3-prime untranslated region of the CX26 transcript contains a putative mRNA instability sequence. The deduced 226-amino acid protein has a calculated molecular mass of about 26 kD. CX26 shares 92.5% identity with rat Cx26. connexin 26 (GJB2) is assigned to human chromosome 13q11-q12 .Connexin 26 regulates epidermal barrier and wound remodeling and promotes psoriasiform response. Connexin 26 gene (GJB2) mutation modulates the severity of hearing loss associated with the 1555A-G mitochondrial mutation.

REFERENCE

1. Mignon, C.; Fromaget, C.; Mattei, M.-G.; Gros, D.; Yamasaki, H.; Mesnil, M. : Assignment of connexin 26 (GJB2) and 46 (GJA3) genes to human chromosome 13q11-q12 and mouse chromosome 14D1-E1 by in situ hybridization. *Cytogenet. Cell Genet.* 72: 185-186, 1996. PubMed ID : 8978770
2. Djallilian, A. R.; McGaughey, D.; Patel, S.; Seo, E. Y.; Yang, C.; Cheng, J.; Tomic, M.; Sinha, S.; Ishida-Yamamoto, A.; Segre, J. A. : Connexin 26 regulates epidermal barrier and wound remodeling and promotes psoriasiform response. *J. Clin. Invest.* 116: 1243-1253, 2006.
3. Abe, S.; Kelley, P. M.; Kimberling, W. J.; Usami, S. : Connexin 26 gene (GJB2) mutation modulates the severity of hearing loss associated with the 1555A-G mitochondrial mutation. *Am. J. Med. Genet.* 103: 334-338, 2001.

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