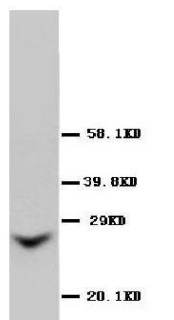




Polyclonal Anti-Connexin 26



Catalogue No. PA1025

Lot No. 03A01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunocytochemistry

Immunogen

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

Purity

Immunogen affinity purified.

Application

Western blot

At 1-2µg/ml with the appropriate system to detect Connexin 26 in cells and tissues.

Immunocytochemistry

Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 50% glycerol, 0.9mg NaCl, 0.2mg Na₂HPO₄.

Reconstitution

1.2% sodium acetate or neutral PBS. If 0.5ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

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,

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

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. Djalilian, 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.