



Product Information Sheet

Polyclonal Anti-Connexin 43 (*Magnetic Bead Conjugate*)

Catalogue No. PA1026-M

Lot No. 05L01

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 C-terminus of human Connexin 43, identical to the related rat and mouse sequence.

Purity

Immunogen affinity purified.

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Storage

Store at 4°C for frequent use.

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation.

BACKGROUND

Connexins 43 (Cx43), also called GAP Junction Protein, alpha-1(GJA1). Connexin 43 is a member of the connexin gene family which abundantly expressed in the heart and liver and was mapped to 6q21-q23.2. Connexin43, the major protein of gap junctions in the heart, is targeted by several protein kinases that regulate myocardial cell-cell coupling. Mutations in the connexin43 gap-junction gene, which lead to abnormally regulated cell-cell communication, are associated with viscerotaxia. Cx43 must also play a critical role in the physiology of hearing, presumably by participating in the recycling of potassium to the cochlear endolymph.

REFERENCE

1. Britz-Cunningham, S. H.; Shah, M. M.; Zuppan, C. W.; Fletcher, W. H. : Mutations of the connexin43 gap-junction gene in patients with heart malformations and defects of laterality. *New Eng. J. Med.* 332: 1323-1329, 1995.
2. Liu, X. Z.; Xia, X. J.; Adams, J.; Chen, Z. Y.; Welch, K. O.; Tekin, M.; Ouyang, X. M.; Kristiansen, A.; Pandya, A.; Balkany, T.; Arnos, K. S.; Nance, W. E. : Mutations in GJA1 (connexin 43) are associated with non-syndromic autosomal recessive deafness. *Hum. Molec. Genet.* 10: 2945-2951, 2001.