



Polyclonal Anti-CHRNA1 (Sephacose Bead Conjugate)

Catalogue No. PA1203-S

Lot No. 08L01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

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

Recommended application

(Immunoprecipitation(IP))

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of human CHRNA1, identical to the related rat and mouse sequence.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ 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

BACKGROUND

CHRNA, also termed ACHRA, is mapped on 2q24-q32. This gene encodes the alpha subunit of the muscle acetylcholine receptor, which is the main target of pathogenic autoantibodies in autoimmune myasthenia gravis¹. The protein-coding sequence of the human alpha subunit gene is divided into 9 exons that correspond to different structural and functional domains of the precursor molecule².

REFERENCE

1. Giraud, M.; Taubert, R.; Vandiedonck, C.; Ke, X.; Levi-Strauss, M.; Pagani, F.; Baralle, F. E.; Eymard, B.; Tranchant, C.; Gajdos, P.; Vincent, A.; Willcox, N.; Beeson, D.; Kyewski, B.; Garchon, H.-J. : An IRF8-binding promoter variant and AIRE control CHRNA1 promiscuous expression in thymus. *Nature* 448: 934-937, 2007.
2. Noda, M.; Furutani, Y.; Takahashi, H.; Toyosato, M.; Tanabe, T.; Shimizu, S.; Kikuyotani, S.; Kayano, T.; Hirose, T.; Inayama, S.; Numa, S. : Cloning and sequence analysis of calf cDNA and human genomic DNA encoding alpha-subunit precursor of muscle acetylcholine receptor. *Nature* 305: 818-823, 1983.

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