



## Product Information Sheet

### **Polyclonal Anti-Acetylcholine receptor (Nicotinic, $\alpha 1$ ), *ACHRa1(Magnetic Bead Conjugate)***

**Catalogue No.** PA1002-M

**Lot No.** 03A01

**Ig type:** rabbit IgG

**Size:** 100 $\mu$ g/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 acetylcholine receptor  $\alpha 1$ , identical to the related mouse and rat sequence.

**Purity**

Immunogen affinity purified.

**Contents**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**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**

The acetylcholine receptor of muscle, like the nicotinic acetylcholine receptor of the Torpedo electric organ, has 5 subunits of 4 different types: 2 alpha and 1 each of beta, gamma, and delta subunits. The alpha subunit exists in 2 isoforms. The protein-coding sequence of the human ACHRA gene is divided into 9 exons that correspond to different structural and functional domains of the precursor molecule. Human nicotinic acetylcholine receptor genes alpha is assigned to chromosome 2. Mutation of the acetylcholine receptor alpha subunit causes a slow-channel myasthenic syndrome by enhancing agonist binding affinity

### **REFERENCE**

1. Beeson, D.; Jeremiah, S.; West, L. F.; Povey, S.; Newsom-Davis, J. : Assignment of the human nicotinic acetylcholine receptor genes: the alpha and delta subunit genes to chromosome 2 and the beta subunit gene to chromosome 17. *Ann. Hum. Genet.* 54: 199-208, 1990.
2. Localization of the gene encoding the alpha-subunit of the acetylcholine receptor on chromosome 2 of the mouse. *Cytogenet. Cell Genet.* 52: 102-103, 1989.
- 3 Sine, S. M.; Ohno, K.; Bouzat, C.; Auerbach, A.; Milone, M.; Pruitt, J. N.; Engel, A. G. : Mutation of the acetylcholine receptor alpha subunit causes a slow-channel myasthenic syndrome by enhancing agonist binding affinity. *Neuron* 15: 229-239, 1995.

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