



ADRA2C, Alpha-2C-adrenergic receptor polyclonal antibody.

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Website: www.allelebiotech.com
Call: 1-800-991-RNAI/858-587-6645
(Pacific Time: 9:00AM~5:00PM)
Email: oligo@allelebiotech.com

Box 1 | Basic Info

Cat. No.	ABP-PAB-11612
Animal ID	RB1299/RB1300
Host	Rabbit
Reactivity	Human, Mouse, Rat
Format	Purified
Accession number	NM_000683
Amount	100µl

Alternative Name(s): ADRA2C, ADRA2L2, ADRARL2, ADRA2RL2

Description

Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. They include 3 highly homologous subtypes: alpha2A, alpha2B, and alpha2C (ADRA2C). These receptors have a critical role in regulating neurotransmitter release from sympathetic nerves and from adrenergic neurons in the central nervous system. Alpha2A and alpha2C subtypes are required for normal presynaptic control of transmitter release from sympathetic nerves in the heart and from central noradrenergic neurons. The alpha2A subtype inhibits transmitter release at high stimulation frequencies, whereas the alpha2C subtype modulates neurotransmission at lower levels of nerve activity.

Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

Immunogen

KLH conjugated synthetic peptide comprised of amino acids 446 - 458 [HILFRRRRRGFRQ] of the human alpha-2C-adrenergic receptor (ADRA2C) protein.

Application

Tested by peptide-specific ELISA (1:1,000).

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

References:

1. Comings DE, Gade-Andavolu R, Gonzalez N, Wu S, Muhleman D, Blake H, Chiu F, Wang E, Farwell K, Darakij S, Baker R, Dietz G, Saucier G, MacMurray JP: Multivariate analysis of associations of 42 genes in ADHD, ODD and conduct disorder. Clin. Genet. 58(1): 31-40 (2000).
2. Hein L, Altman JD, Kobilka BK: Two functionally distinct alpha2-adrenergic receptors regulate sympathetic neurotransmission. Nature 402(6758): 181-184 (1999).
3. DeGraff JL, Gagnon AW, Benovic JL, Orsini MJ: Role of arrestins in endocytosis and signaling of alpha2-adrenergic receptor subtypes. J. Biol. Chem. 274(16): 11253-11259 (1999).
4. Schaak S, Devedjian JC, Cayla C, Sender Y, Paris H: Molecular cloning, sequencing and functional study of the promoter region of the human alpha2C4-adrenergic receptor gene. Biochem. J. 328 (Pt 2): 431-438 (1997).