

α_{2C} -AR (C-15): sc-30439

BACKGROUND

α_{2C} adrenergic receptors (α_{2C} -AR) regulate neurotransmitter release from sympathetic nerves in the heart, and from adrenergic neurons in the central nervous system. α_{2C} -AR can influence Parkinson's disease, panic disorders, and Huntington disease (HD) progression. α_{2C} -AR transcripts are present in rat muscle, heart, pancreas, and kidney.

REFERENCES

- Eason, M.G. and Liggett, S.B. 1993. Human α_2 adrenergic receptor subtype distribution: widespread and subtype-selective expression of α_{2C10} , α_{2C4} , and α_{2C2} mRNA in multiple tissues. *Mol. Pharmacol.* 44: 70-75.
- Riess, O., et al. 1994. Precise mapping of the brain α_2 adrenergic receptor gene within chromosome 4p16. *Genomics* 19: 298-302.
- Hein, L., et al. 1999. Two functionally distinct α_2 adrenergic receptors regulate sympathetic neurotransmission. *Nature* 402: 181-184.
- Gerson, M.C., et al. 2003. Activity of the uptake-1 norepinephrine transporter as measured by I-123 MIBG in heart failure patients with a loss-of-function polymorphism of the presynaptic α_{2C} -adrenergic receptor. *J Nucl. Cardiol.* 10: 583-589.
- Small, K.M., et al. 2004. Polymorphisms of cardiac presynaptic α_{2C} adrenergic receptors: Diverse intragenic variability with haplotype-specific functional effects. *Proc. Natl. Acad. Sci. USA* 101:13020-13025.
- Olave, M.J., et al. 2004. Axon terminals possessing α_{2C} -adrenergic receptors densely innervate neurons in the rat lateral spinal nucleus which respond to noxious stimulation. *Neuroscience* 126: 391-403.
- Bailey, S.R., et al. 2004. Rho kinase mediates cold-induced constriction of cutaneous arteries: role of α_{2C} -adrenoceptor translocation. *Circ. Res.* 94: 1367-1374.
- LocusLink Report: (LocusID: 152). <http://www.ncbi.nlm.nih.gov/LocusLink/>

SOURCE

α_{2C} -AR (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of α_{2C} -AR of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-30439 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

α_{2C} -AR (C-15) is recommended for detection of α_{2C} -AR of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for α_{2C} -AR siRNA (h): sc-29622, α_{2C} -AR siRNA (m): sc-29623, α_{2C} -AR shRNA Plasmid (h): sc-29622-SH, α_{2C} -AR shRNA Plasmid (m): sc-29623-SH, α_{2C} -AR shRNA (h) Lentiviral Particles: sc-29622-V and α_{2C} -AR shRNA (m) Lentiviral Particles: sc-29623-V.

Molecular Weight of α_{2C} -AR: 60 kDa.

Positive Controls: A-10 cell lysate: sc-3806 or KNRK whole cell lysate: sc-2214.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

SELECT PRODUCT CITATIONS

- Gill, D.A., et al. 2012. Low-dose neonatal domoic acid causes persistent changes in behavioural and molecular indicators of stress response in rats. *Behav. Brain Res.* 230: 409-417.

RESEARCH USE

For research use only, not for use in diagnostic procedures.