

α_2C -AR (T-15): sc-30437

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. A genetic variant in the α_2C -AR coding region (Del322-325) renders the receptor partially uncoupled from G_i , and is a contributing risk factor for heart failure. α_2C -AR transcripts are present in rat muscle, heart, pancreas, and kidney.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ADRA2C (human) mapping to 4p16.3; Adra2c (mouse) mapping to 5 B2.

SOURCE

α_2C -AR (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region 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-30437 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

α_2C -AR (T-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).

α_2C -AR (T-15) is also recommended for detection of α_2C -AR in additional species, including canine and porcine.

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.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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