

α_{1B} -AR (G-16): sc-26416

BACKGROUND

α_{1B} adrenergic receptors couple to $G_{q/11}$ and induce neoplastic transformation in NIH/3T3 cell transfectants. α_{1B} receptors (α_{1B} -AR) can form hetero-oligomers with α_{1A} and α_{1D} receptors. α_{1B} -AR transcripts are abundant in heart, brain and kidney.

REFERENCES

- Allen, L.F., Lefkowitz, R.J., Caron, M.G. and Cotecchia, S. 1991. G protein-coupled receptor genes as protooncogenes: constitutively activating mutation of the α_{1B} adrenergic receptor enhances mitogenesis and tumorigenicity. *Proc. Natl. Acad. Sci. USA* 88: 11354-11358.
- Hague, C., Uberti, M.A., Chen, Z., Hall, R.A. and Minneman, K.P. 2004. Cell surface expression of α_{1D} -adrenergic receptors is controlled by heterodimerization with α_{1B} -adrenergic receptors. *J. Biol. Chem.* 279: 15541-15549.
- Stanasila, L., Perez, J.B., Vogel, H. and Cotecchia, S. 2003. Oligomerization of the α_{1A} - and α_{1B} -adrenergic receptor subtypes. Potential implications in receptor internalization. *J. Biol. Chem.* 278: 40239-40251.

CHROMOSOMAL LOCATION

Genetic locus: ADRA1B (human) mapping to 5q33.3; Adra1b (mouse) mapping to 11 B1.1.

SOURCE

α_{1B} -AR (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of α_{1B} -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-26416 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

α_{1B} -AR (G-16) is recommended for detection of α_{1B} -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_{1B} -AR (G-16) is also recommended for detection of α_{1B} -AR in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for α_{1B} -AR siRNA (h): sc-39860, α_{1B} -AR siRNA (m): sc-39861, α_{1B} -AR shRNA Plasmid (h): sc-39860-SH, α_{1B} -AR shRNA Plasmid (m): sc-39861-SH, α_{1B} -AR shRNA (h) Lentiviral Particles: sc-39860-V and α_{1B} -AR shRNA (m) Lentiviral Particles: sc-39861-V.

Molecular Weight of α_{1B} -AR: 70/90 kDa.

Positive Controls: Rat heart extract: sc-2393, SK-N-SH cell lysate: sc-2410 or C2C12 whole cell lysate: sc-364188.

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.