

α_{1B} -AR (C-18): sc-1476

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., et al. 1991. G protein-coupled receptor genes as protooncogenes: constitutively activating mutation of the α_{1B} receptor enhances mitogenesis and tumorigenicity. *Proc. Natl. Acad. Sci. USA* 88: 11354-11358.
- Stanasila, L., et al. 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 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus 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-1476 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

α_{1B} -AR (C-18) is recommended for detection of α_{1B} adrenergic receptor of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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 (C-18) is also recommended for detection of α_{1B} adrenergic receptor in additional species, including canine, bovine and porcine.

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.

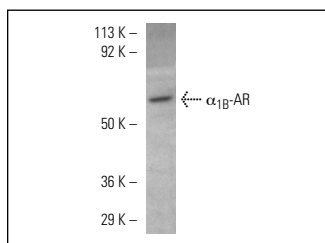
STORAGE

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.

DATA



α_{1B} -AR (C-18): sc-1476. Western blot analysis of α_{1B} -AR expression in rat heart tissue extract.

SELECT PRODUCT CITATIONS

- Walden, P., et al. 1999. Localization and expression of the α_{1A-1} , α_{1B} and α_{1D} -adrenoceptors in hyperplastic and non-hyperplastic human prostate. *J. Urol.* 161: 635-640.
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