



p- β_2 -AR (Ser 355/Ser 356)-R: sc-22191-R

BACKGROUND

The adrenergic receptor (AR) family is composed of four types (α_1 , α_2 , β_1 and β_2), which are found in different target tissues and differ in their affinities and responses to various agonists and antagonists (1-3). The coupling of ARs to specific intracellular effectors is mediated through diverse heterotrimeric G proteins and is regulated by G protein-coupled receptor kinases (GRKs), cAMP-dependent protein kinase A and protein kinase C directed phosphorylation (4,5). Phosphorylation of Ser 345/346 and Ser 355/356 by PKA and GRK, respectively, promotes desensitization of the β_2 -AR (6,7). Insulin stimulates tyrosine phosphorylation on residues 141 and 350 (8,9). Activation of Tyr 350 in response to insulin allows β_2 -AR to couple to Gs and subsequently stimulate adenylyl cyclase, while insulin mediated phosphorylation of Tyr 141 leads to a supersensitization of the β_2 -AR (8,9).

SOURCE

p- β_2 -AR (Ser 355/Ser 356)-R is an affinity purified rabbit polyclonal antibody raised against a peptide corresponding to a short sequence of amino acids containing phosphorylated Ser-355 and Ser-356 of beta₂ adrenergic receptor of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS containing 0.1% sodium azide and 0.2% gelatin.

Blocking peptide is available for competition studies (sc-22191 P) (100 μ g peptide in 0.5 ml PBS with 0.1% sodium azide and 100 μ g BSA).

SPECIFICITY

p- β_2 -AR (Ser 355/Ser 356)-R is recommended for the detection of Ser-355 and Ser-356 phosphorylated β_2 -AR of human origin by Western blotting and immunohistochemistry.

Recommended dilution range for Western blot analysis: 1:200-1:1000. Recommended starting dilution: 1:200.

STORAGE

Store at 4° C, do not freeze; stable for one year from the date of shipment.

RESEARCH USE

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

BACKGROUND REFERENCES

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