

# β-Arrestin-1 (C-19): sc-6388

## BACKGROUND

The members of the G protein-coupled receptor family are distinguished by their slow transmitting response to ligand binding. These seven transmembrane proteins include the adrenergic, serotonin and dopamine receptors. The effect of the signaling molecule can be excitatory or inhibitory depending on the type of receptor to which it binds. Members of the β-Arrestin family regulate receptor binding to G proteins. β-Arrestins have been found to be located at postsynaptic sites, where they are thought to act in concert with βARK (βARK1, also designated GRK 2, or βARK2, also designated GRK 3) to regulate G protein-coupled neurotransmitter receptors. Expression of β-Arrestin-1 and β-Arrestin-2 is seen predominantly in spleen and neuronal tissues. It has been shown that β-Arrestin-1 expression is modulated by intracellular cAMP, which may be a novel mechanism for the regulation of receptor-mediated responses.

## CHROMOSOMAL LOCATION

Genetic locus: ARRB1 (human) mapping to 11q13.4.

## SOURCE

β-Arrestin-1 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of β-Arrestin-1 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-6388 P, (100 μg 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.

## APPLICATIONS

β-Arrestin-1 (C-19) is recommended for detection of β-Arrestin-1 of human and, to a lesser extent, rat 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

β-Arrestin-1 (C-19) is also recommended for detection of β-Arrestin-1 in additional species, including equine, canine and bovine.

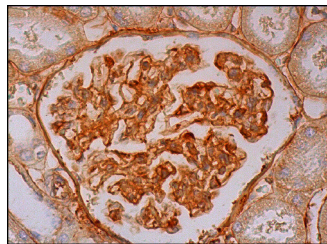
Suitable for use as control antibody for β-Arrestin-1 siRNA (h): sc-29741, β-Arrestin-1 siRNA (r): sc-63298, β-Arrestin-1 shRNA Plasmid (h): sc-29741-SH, β-Arrestin-1 shRNA Plasmid (r): sc-63298-SH, β-Arrestin-1 shRNA (h) Lentiviral Particles: sc-29741-V and β-Arrestin-1 shRNA (r) Lentiviral Particles: sc-63298-V.

Molecular Weight of β-Arrestin-1: 55 kDa.

## 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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



β-Arrestin-1 (C-19): sc-6388. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic and membrane staining of cells in glomeruli and cells in tubules.

## SELECT PRODUCT CITATIONS

1. Macia, E., et al. 2012. Arf6 negatively controls the rapid recycling of the β2AR. *J. Cell Sci.* 125: 4026-4035.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **β-Arrestin-1/2 (A-1): sc-74591** or **β-Arrestin-1/2 (21-B1): sc-53781**, our highly recommended monoclonal alternatives to β-Arrestin-1 (C-19). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **β-Arrestin-1/2 (A-1): sc-74591**.