

# Arrestin-C (I-17): sc-54355

## BACKGROUND

Members of Arrestin/ $\beta$ -Arrestin protein family are thought to participate in agonist-mediated desensitization of G protein-coupled receptors and cause specific dampening of cellular responses to stimuli such as hormones, neurotransmitters or sensory signals. Arrestin-C, also known as retinal cone Arrestin-3, X-Arrestin or cArr, is a member of the Arrestin family of proteins. It is predominantly found in the retina and pineal gland and localizes to the inner and outer segments of red-, green- and blue-cone photoreceptors and the inner plexiform regions. Two Arrestin-C isoforms exist due to alternative splicing. Isoform 1 is the mature full length protein and isoform 2 is truncated, ending with an arginine for amino acid residue 359. Arrestin-C expression is stimulated by retinoic acid. It may play a role in retina-specific signal transduction and bind to photoactivated-phosphorylated red/green opsins. In addition, Arrestin-C forms homodimers and oligomers with  $\beta$ -Arrestins and may regulate  $\beta$ -Arrestin mediated signaling.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ARR3 (human) mapping to Xq13.1; Arr3 (mouse) mapping to X C3.

## SOURCE

Arrestin-C (I-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Arrestin-C of human origin.

## STORAGE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-54355 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Arrestin-C (I-17) is recommended for detection of Arrestin-C of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

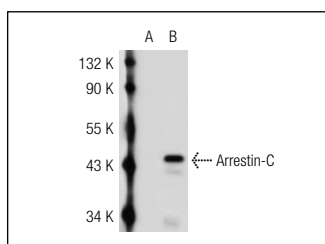
Arrestin-C (I-17) is also recommended for detection of Arrestin-C in additional species, including canine.

Suitable for use as control antibody for Arrestin-C siRNA (h): sc-61996, Arrestin-C siRNA (m): sc-61997, Arrestin-C shRNA Plasmid (h): sc-61996-SH, Arrestin-C shRNA Plasmid (m): sc-61997-SH, Arrestin-C shRNA (h) Lentiviral Particles: sc-61996-V and Arrestin-C shRNA (m) Lentiviral Particles: sc-61997-V.

Molecular Weight of Arrestin-C: 43 kDa.

Positive Controls: Arrestin-C (m): 293T Lysate: sc-118572.

## DATA



Arrestin-C (I-17): sc-54355. Western blot analysis of Arrestin-C expression in non-transfected: sc-117752 (A) and mouse Arrestin-C transfected: sc-118572 (B) 293T whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

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