MEMBERS OF ARRESTIN/β-ARRESTIN PROTEIN FAMILY ARE THOUGHT TO PARTICIPATE IN AGONIST-MEDIATED DESSENSITIZATION OF G PROTEIN-COUPL ED RECEPTORS AND CAUSE SPECIFIC DAMPENING OF CELLULAR RESPONSES TO STIMULI SUCH AS HORMONES, NEUROTAMM ERS 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 PRIMARILY 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 β-ARRESTINS AND MAY REGULATE β-ARRESTIN-MEDIATED SIGNALING.

REFERENCES

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 µg 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 µg 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 µg per 100-500 µg 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

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.

Try Arrestin-C (2D7): sc-293296, our highly recommended monoclonal alternative to Arrestin-C (I-17).