

# Visual Arrestin (T-15): sc-34550

## 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. Visual Arrestin, also known as arrestin, retinal S-antigen or S-arrestin, is a major soluble photoreceptor protein that regulates light-dependent signal transduction through G protein-coupled receptor (rhodopsin) activation. Visual Arrestin is expressed in retinal photoreceptor cells and the pineal gland. Visual Arrestin is the major pathogenic autoantigen in inflammatory eye disease, such as uveoretinitis and Oguchi disease, a rare autosomal recessive form of night blindness.

## REFERENCES

1. Banga, J.P., et al. 1988. Analysis of antigenic determinants of retinal S-antigen with monoclonal antibodies. Invest Ophthalmol. Vis. Sci. 29: 12-21.
2. Palczewski, K., et al. 1989. Regulation of rhodopsin dephosphorylation by Arrestin. J. Biol. Chem. 264: 15770-15773.

## SOURCE

Visual Arrestin (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Visual Arrestin of human origin.

## 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-34550 P, (100  $\mu$ g 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

Visual Arrestin (T-15) is recommended for detection of Visual Arrestin and, to a lesser extent,  $\beta$ -Arrestin-1 and  $\beta$ -Arrestin-2 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).

Visual Arrestin (T-15) is also recommended for detection of Visual Arrestin and, to a lesser extent,  $\beta$ -Arrestin-1 and  $\beta$ -Arrestin-2 in additional species, including equine, canine, bovine and porcine.

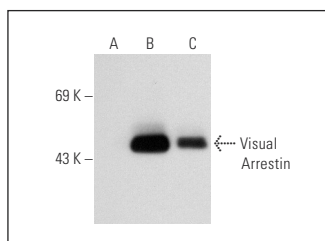
Molecular Weight of Visual Arrestin: 48 kDa.

Positive Controls: Visual Arrestin (m): 293T Lysate: sc-124570, mouse eye extract: sc-364241 or rat eye extract: sc-364805.

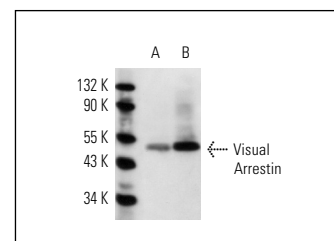
## RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



Visual Arrestin (T-15): sc-34550. Western blot analysis of Visual Arrestin expression in non-transfected: sc-117752 (A) and mouse Visual Arrestin transfected: sc-124570 (B) 293T whole cell lysates and mouse eye tissue extract (C).



Visual Arrestin (T-15): sc-34550. Western blot analysis of Visual Arrestin expression in rat (A) and mouse (B) eye tissue extracts.

## 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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Satisfaction  
Guaranteed

Try **Visual Arrestin (E-3): sc-166383** or **Visual Arrestin (G-2): sc-166353**, our highly recommended monoclonal alternatives to Visual Arrestin (T-15).