

# Visual Arrestin (H-90): sc-67130

## BACKGROUND

Members of the 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.

## CHROMOSOMAL LOCATION

Genetic locus: SAG (human) mapping to 2q37.1; Sag (mouse) mapping to 1 D.

## SOURCE

Visual Arrestin (H-90) is a rabbit polyclonal antibody raised against amino acids 316-405 mapping at 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.

## APPLICATIONS

Visual Arrestin (H-90) is recommended for detection of Visual Arrestin 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 (H-90) is also recommended for detection of Visual Arrestin in additional species, including canine.

Suitable for use as control antibody for Visual Arrestin siRNA (h): sc-45467, Visual Arrestin siRNA (m): sc-45468, Visual Arrestin shRNA Plasmid (h): sc-45467-SH, Visual Arrestin shRNA Plasmid (m): sc-45468-SH, Visual Arrestin shRNA (h) Lentiviral Particles: sc-45467-V and Visual Arrestin shRNA (m) Lentiviral Particles: sc-45468-V.

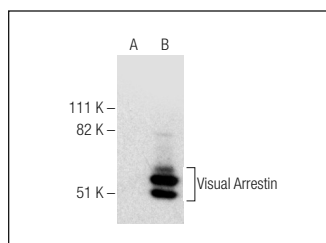
Molecular Weight of Visual Arrestin: 48 kDa.

Positive Controls: Visual Arrestin (h): 293 Lysate: sc-171189, mouse eye tissue extract or rat eye tissue extract.

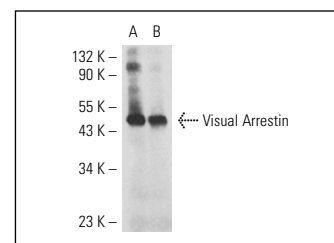
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> Mounting Medium: sc-24941.

## DATA



Visual Arrestin (H-90): sc-67130. Western blot analysis of Visual Arrestin expression in non-transfected: sc-110760 (A) and human Visual Arrestin transfected: sc-171189 (B) 293 whole cell lysates.



Visual Arrestin (H-90): sc-67130. Western blot analysis of Visual Arrestin expression in mouse eye (A) and rat eye (B) tissue extracts.

## STORAGE

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

## 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.



Try **Visual Arrestin (E-3): sc-166383** or **Visual Arrestin (G-2): sc-166353**, our highly recommended monoclonal alternatives to Visual Arrestin (H-90).