

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human $\beta$ -Arrestin 1 in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant human $\beta$ -Arrestin 2 is observed.                                                                                                                 |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human $\beta$ -Arrestin 1<br>Met1-Arg418<br>Accession # P49407                                                                                                                                                                          |
| <b>Conjugate</b>          | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Immunohistochemistry** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

The Arrestin family consists of four members: Arrestin 1 (visual Arrestin), Arrestin 2 ( $\beta$ -Arrestin 1), Arrestin 3 ( $\beta$ -Arrestin 2), and Arrestin 4 (cone Arrestin). While visual and cone Arrestins are found almost exclusively in the retina,  $\beta$ -Arrestins 1 and 2 are ubiquitously expressed, and were initially described as negative regulators of G protein-coupled receptor (GPCR) signaling. More recently,  $\beta$ -Arrestins have been determined to serve as scaffolds for various signaling pathways, including the MAPK cascades activating ERK2, p38 $\alpha$ , and JNK3. These  $\beta$ -Arrestin scaffolds tie together the appropriate kinases in series, forming a discreet signaling module that localizes components to specific subcellular environments and facilitates greater kinase activation.

## PRODUCT SPECIFIC NOTICES

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