

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human β -Arrestin 1 in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG _{2A} Clone # 425817
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human β -Arrestin 1 Met1-Arg418 Accession # P49407
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
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 (β -Arrestin 1), Arrestin 3 (β -Arrestin 2), and Arrestin 4 (cone Arrestin). While visual and cone Arrestins are found almost exclusively in the retina, β -Arrestins 1 and 2 are ubiquitously expressed, and were initially described as negative regulators of G protein-coupled receptor (GPCR) signaling. More recently, β -Arrestins have been determined to serve as scaffolds for various signaling pathways, including the MAPK cascades activating ERK2, p38 α , and JNK3. These β -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.

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