Human β-Arrestin 1 Antibody

Monoclonal Rat IgG_{2A} Clone # 425817

Catalog Number: MAB45601

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	*E. coli*-derived recombinant human β-Arrestin 1 Met1-Arg418 Accession # P49407
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

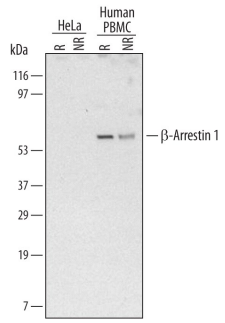
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	Immersion fixed paraffin-embedded sections of human colon cancer tissue

DATA

Western Blot



Detection of Human β-Arrestin 1 by Western Blot. Western blot shows lysates of human peripheral blood mononuclear cells under reducing (R) and non-reducing (NR) conditions. PVDF membrane was probed with 2 µg/mL Rat Anti-Human β-Arrestin 1 Monoclonal Antibody (Catalog # MAB45601) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band for β-Arrestin 1 was detected at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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, p38α, 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.