
Beta-arrestin 1/2 Peptide

Subcategory: Synthetic Peptide, Blocking Peptide

Cat. No.: 300120

Unit: 0.1 mg

Description:

Beta-arrestins function in regulating agonist-mediated G-protein coupled receptor (GPCR) signaling by mediating both receptor desensitization and resensitization processes. During homologous desensitization, beta-arrestins bind to the GPRK-phosphorylated receptor and sterically preclude its coupling to the cognate G-protein. Beta-arrestin binding appears to require additional receptor determinants exposed only in the active receptor conformation. The beta-arrestins target many receptors for internalization by acting as endocytic adaptors (CLASPs, clathrin-associated sorting proteins) and recruiting the GPRCs to the adaptor protein 2 complex 2 (AP-2) in clathrin-coated pits (CCPs). This antibody recognizes beta-arrestin-1 and beta-arrestin-2. The extent of beta-arrestin involvement appears to vary significantly depending on the receptor, agonist and cell type.

Format: Each vial contains 0.1 ml peptide in deionized water for a final concentration of 1 mg/ml. Use at 5.6 ug/ml for a 100X excess over antibody for maximum blocking effect.

Alternate Names: beta-arrestin 1; beta-arrestin 2; beta-arrestin 1/2; Beta-arrestin-1/2; Beta-arrestin-1; Arrestin beta-1; ARRB1; Beta-arrestin-2; Arrestin beta-2; ARRB2

Accession No.: P49407 , P32121

Sequence: The synthetic peptide used to raise the antibody Cat. No. 251344 is selected from a sequence within the N-term region of human beta-arrestin 1/2. For blocking experiments, a 10 to 100 fold molar excess to antibody is recommended.

Purity: Purity > 80% by HPLC

Solubility: Distilled water for a solution up to 2 mg/ml, otherwise we recommend using acetonitrile.

Storage: Store at -20°C. The product is hygroscopic and must be protected from light. Product is guaranteed one year from the date of shipment. Following reconstitution, store at -20°C.

For research use only, not for diagnostic or therapeutic procedures.