Product Datasheet

ARRB1 Antibody

Catalog No: CY5314 Reactivity: Human Mouse Rat

Isotype: Rabbit IgG Applications: WB IHC ICC/IF FC

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Information

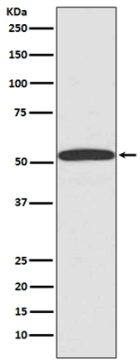
UniProt ID: P49407
All Names: ARRB1; ARB1; ARR1; Arrestin beta 1; Beta arrestin 1;
Form: Liquid
Storage instructions: Store at +4℃C short term. Store at -20℃C long term. Avoid freeze / thaw cycle.
Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity: Affinity-chromatography
Immunogen: A synthesized peptide
Molecular Wt.: 50 kDa

Application

WB: 1:500~1:1000
IHC: 1:50~1:200
ICC/IF: 1:50~1:200
FC:1:20

Background

Arrestin proteins function as negative regulators of G protein-coupled receptor (GPCR) signaling. Cognate ligand binding stimulates GPCR phosphorylation, which is followed by binding of arrestin to the phosphorylated GPCR and the eventual internalization of the receptor and desensitization of GPCR signaling. Four distinct mammalian arrestin proteins are known. Arrestin 1 (also known as S-arrestin) and arrestin 4 (X-arrestin) are localized to retinal rods and cones, respectively. Arrestin 2 (also known as β-arrestin 1) and arrestin 3 (β-arrestin 2) are ubiquitously expressed and bind to most GPCRs. β-arrestins function as adaptor and scaffold proteins and play important roles in other processes, such as recruiting c-Src family proteins to GPCRs in Erk activation pathways. β-arrestins are also involved in some receptor tyrosine kinase signaling pathways. Additional evidence suggests that β-arrestins translocate to the nucleus and help regulate transcription by binding transcriptional cofactors.



Western blot analysis of ARRB1 expression in 293T cell lysate.