

Product Name: KD-Validated Arrestin Beta 1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00184

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 47.1kDa

Antigen Information

Gene Name	ARRB1
Alternative Names	ARRB1; Arrestin Beta 1; ARR1; Non-Visual Arrestin-2; Beta-Arrestin-1; Arrestin 2; Arrestin, Beta 1; Arrestin Beta-1; ARB1
Gene ID	408.0
SwissProt ID	P49407
Immunogen	A synthesized peptide derived from human ARRB1

Background

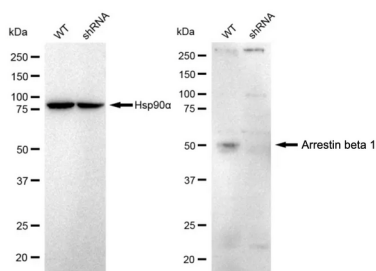
Members of arrestin/beta-arrestin protein family are thought to participate in agonist-mediated desensitization of G-protein-coupled receptors and cause specific dampening of cellular responses to stimuli such as hormones, neurotransmitters, or sensory signals. Arrestin beta 1 is a cytosolic protein and acts as a cofactor in the beta-adrenergic receptor kinase (BARK)

mediated desensitization of beta-adrenergic receptors. Besides the central nervous system, it is expressed at high levels in peripheral blood leukocytes, and thus the BARK/beta-arrestin system is believed to play a major role in regulating receptor-mediated immune functions. Alternatively spliced transcripts encoding different isoforms of arrestin beta 1 have been described. [provided by RefSeq, Jan 2011]

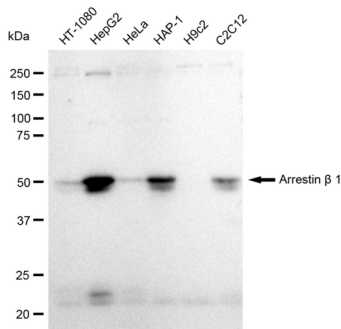
Research Area

Neuroscience, Signal Transduction, Neuroscience

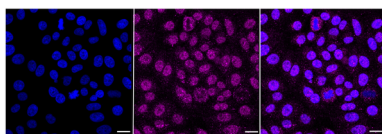
Image Data



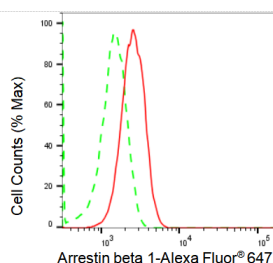
Western blotting analysis using Arrestin beta 1 antibody (KVA00184). Arrestin beta 1 expression in wild type (WT) and arrestin beta 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Arrestin beta 1 antibody (KVA00184, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Arrestin beta 1 antibody (KVA00184). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Arrestin beta 1 antibody (KVA00184, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Arrestin beta 1 antibody (KVA00184, 1:1,000). Nuclei were stained blue with DAPI; Arrestin beta 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.



Flow cytometric analysis of Arrestin beta 1 expression in HepG2 cells using Arrestin beta 1 antibody (KVA00184, 1:2,000). Green, isotype control; red, Arrestin beta 1.