

Product datasheet for **TA332389**

beta Arrestin 1 (ARRB1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, IP, WB
Recommended Dilution:	WB 1:500 - 1:2000;IF 1:20- 1:100
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human ARRB1
Formulation:	Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	418
Gene Name:	arrestin beta 1
Database Link:	NP_064647 Entrez Gene 25387 Rat Entrez Gene 109689 Mouse Entrez Gene 408 Human P49407



[View online »](#)

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 (1). 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 $\hat{\beta}$ -arrestin 1) and arrestin 3 ($\hat{\beta}$ -arrestin 2) are ubiquitously expressed and bind to most GPCRs (2). $\hat{\beta}$ -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 (3,4). $\hat{\beta}$ -arrestins are also involved in some receptor tyrosine kinase signaling pathways (5-8). Additional evidence suggests that $\hat{\beta}$ -arrestins translocate to the nucleus and help regulate transcription by binding transcriptional cofactors (9,10).

Synonyms:

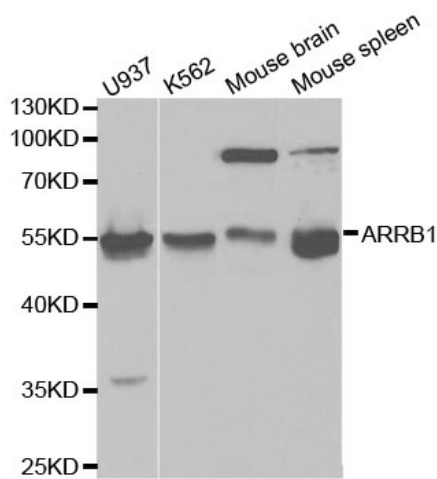
ARB1; ARR1

Protein Families:

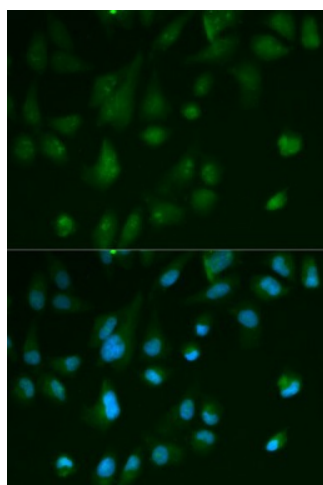
Druggable Genome

Protein Pathways:

Chemokine signaling pathway, Endocytosis, MAPK signaling pathway

Product images:

Western blot analysis of extracts of various cell lines, using ARRB1 antibody.



Immunofluorescence analysis of HeLa cell using ARRB1 antibody. Blue: DAPI for nuclear staining.