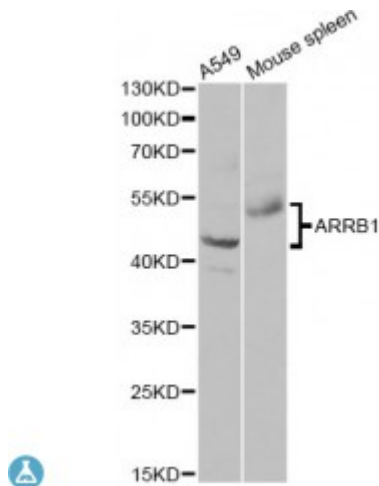


Anti-ARRB1 Antibody



Description

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.

Model	STJ114874
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	IF, IHC, WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 169-418 of human ARRB1 (NP_004032.2).
Gene ID	408
Gene Symbol	ARRB1
Dilution range	WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200
Purification	Affinity purification

Note	For Research Use Only (RUO).
Protein Name	Beta-arrestin-1 Arrestin beta-1 Non-visual arrestin-2
Molecular Weight	47.066 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:711OMIM:107940Reactome:R-HSA-2122948
Alternative Names	Beta-arrestin-1 Arrestin beta-1 Non-visual arrestin-2
Function	Functions 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
Cellular Localization	Cytoplasm, Nucleus, Cell membrane, Membrane, clathrin-coated pit, Cytoplasmic vesicle,
Post-translational Modifications	Constitutively phosphorylated at Ser-412 in the cytoplasm, At the plasma membrane, is rapidly dephosphorylated, a process that is required for clathrin binding and ADRB2 endocytosis but not for ADRB2 binding and desensitization, Once internalized, is rephosphorylated,

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