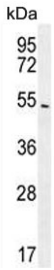
ARRB1 Antibody / Beta Arrestin 1 (F54630)

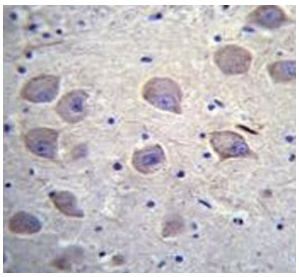
Catalog No.	Formulation	Size
F54630-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54630-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

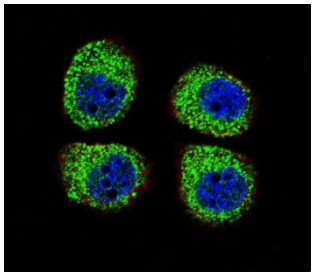
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P49407
Localization	Cytoplasmic, nuclear
Applications	Flow Cytometry : 1:25 (1x10e6 cells) Immunofluorescence : 1:25 Immunohistochemistry (FFPE) : 1:25 Western Blot : 1:500-1:2000
Limitations	This ARRB1 antibody is available for research use only.



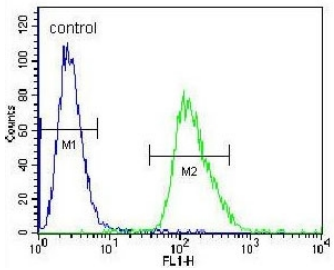
Western blot testing of human A549 cell lysate with ARRB1 antibody. Predicted molecular weight ~47 kDa.



IHC testing of FFPE human brain tissue with ARRB1 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human A549 cells with ARRB1 antibody (green), DAPI nuclear stain (blue) and anti-Actin (red).



Flow cytometry testing of human A549 cells with ARRB1 antibody; Blue=isotype control, Green= 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, however, their exact functions are not known.

Application Notes

The stated application concentrations are suggested starting points. Titration of the ARRB1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 336-363 from the human protein was used as the immunogen for the ARRB1 antibody.

Storage

Aliquot the ARRB1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.