



# Arrestin- $\beta$ -1 Polyclonal Antibody

|                           |   |
|---------------------------|---|
| <b>Catalog No</b>         | BYab-03723  |
| <b>Isotype</b>            | IgG   |
| <b>Reactivity</b>         | Human;Monkey  |
| <b>Applications</b>       | WB;IHC;IF;ELISA   |
| <b>Gene Name</b>          | ARRB1   |
| <b>Protein Name</b>       | Beta-arrestin-1   |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human Arrestin 1. AA range:369-418  |
| <b>Specificity</b>        | Arrestin- $\beta$ -1 Polyclonal Antibody detects endogenous levels of Arrestin- $\beta$ -1 protein.   |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source</b>             | Polyclonal, Rabbit,IgG  |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.   |
| <b>Dilution</b>           | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.  |
| <b>Concentration</b>      | 1 mg/ml   |
| <b>Purity</b>             | $\geq 90\%$   |
| <b>Storage Stability</b>  | -20°C/1 year  |
| <b>Synonyms</b>           | ARRB1; ARR1; Beta-arrestin-1; Arrestin beta-1   |
| <b>Observed Band</b>      | 47kD  |
| <b>Cell Pathway</b>       | Cytoplasm. Nucleus. Cell membrane. Membrane, clathrin-coated pit . Cell projection, pseudopodium . Cytoplasmic vesicle. Translocates to the plasma membrane and colocalizes with antagonist-stimulated GPCRs. The monomeric form is predominantly located in the nucleus. The oligomeric form is located in the cytoplasm. Translocates to the nucleus upon stimulation of OPRD1 (By similarity). |
| <b>Tissue Specificity</b> | Brain,Peripheral blood,Uterus,  |
| <b>Function</b>           | function:Regulates beta-adrenergic receptor function. Beta-arrestins seem to bind phosphorylated beta-adrenergic receptors, thereby causing a significant impairment of their capacity to activate G(S) proteins.,online information:Arrestin entry,similarity:Belongs to the arrestin family.,   |

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### 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],

### matters needing attention

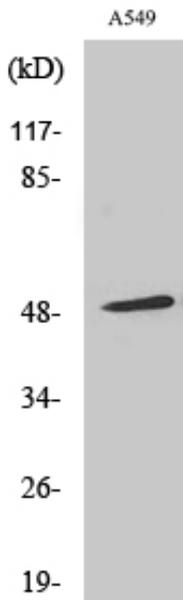
Avoid repeated freezing and thawing!

### Usage suggestions

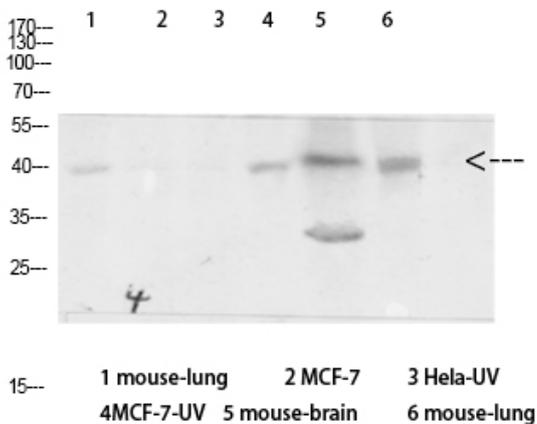
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



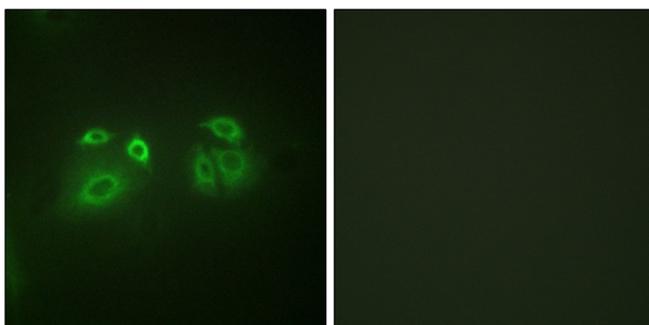
## Products Images



Western Blot analysis of various cells using Arrestin- $\beta$ -1 Polyclonal Antibody diluted at 1:500

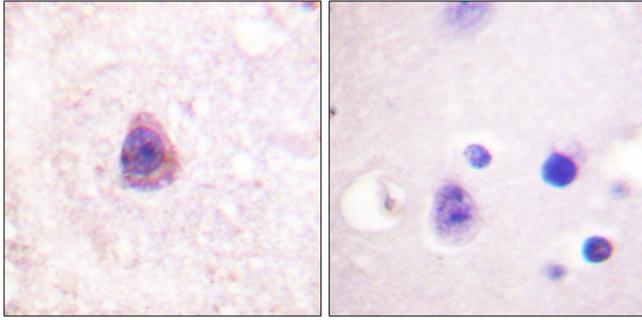


Western Blot analysis of various cells using Antibody diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

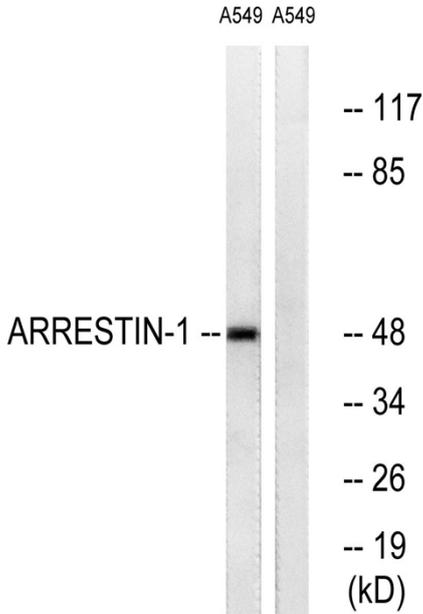


Immunofluorescence analysis of A549 cells, using Arrestin 1 Antibody. The picture on the right is blocked with the synthesized peptide.

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Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Arrestin 1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from A549 cells, treated with Etoposide 25uM 60', using Arrestin 1 Antibody. The lane on the right is blocked with the synthesized peptide.