

## Product datasheet for **AP06791PU-M**

### beta Arrestin 1 (ARRB1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200. <b>Immunofluorescence:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 360-410 of Human Arrestin- $\beta$ -1.
Specificity:	This antibody detects endogenous levels of Arrestin- $\beta$ -1 protein. (region surrounding Gln394)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 15 mM sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 50 kDa
Gene Name:	arrestin beta 1
Database Link:	<a href="#">Entrez Gene 408 Human P49407</a>

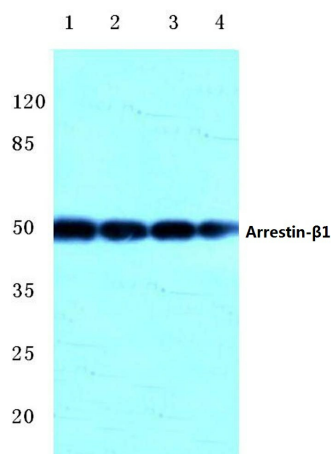
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**Background:**

The members of the G protein coupled receptor family are distinguished by their slow transmitting response to ligand binding. These seven transmembrane proteins include the adrenergic, serotonin and dopamine receptors. The effect of the signaling molecule can be excitatory or inhibitory depending on the type of receptor to which it binds. Members of the  $\beta$ -Arrestin family regulate receptor binding to G proteins.  $\beta$ -Arrestins have been found to be located at postsynaptic sites, where they are thought to act in concert with  $\beta$ ARK ( $\beta$ ARK1, also designated GRK 2, or  $\beta$ ARK2, also designated GRK 3) to regulate G protein-coupled neurotransmitter receptors. Expression of  $\beta$ -Arrestin-1 and  $\beta$ -Arrestin-2 is seen predominantly in spleen and neuronal tissues. It has been shown that  $\beta$ -Arrestin-1 expression is modulated by intracellular cAMP, which may be a novel mechanism for the regulation of receptor-mediated responses.

**Synonyms:**

ARR1, Beta-arrestin-1

**Product images:**


Western blot (WB) analysis of Arrestin- $\beta$ -1 antibody at 1/500 dilution. Lane 1: MCF-7 whole cell lysate Lane 2: Mouse brain tissue lysate Lane 3: H9C2 whole cell lysate