



## Anti-Arrestin beta 2 (ARRB2), Rabbit-Polyclonal Antibody

**Catalog No.** GB-30077  
**Antigen species:** Human  
**Host species:** Rabbit

**Quantity:** 100µg  
**Reactivity:** Human, rat, mouse  
**Form:** Peptide affinity purified antibody

**Applications:** ELISA, Western blot

### Target 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 2, like arrestin beta 1, was shown to inhibit beta-adrenergic receptor function in vitro. It is expressed at high levels in the central nervous system and may play a role in the regulation of synaptic receptors. Besides the brain, a cDNA for arrestin beta 2 was isolated from thyroid gland, and thus it may also be involved in hormone-specific desensitization of TSH receptors. Multiple alternatively spliced transcript variants have been found for this gene, but the full-length nature of some variants has not been defined.

### Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide located on the putative C-terminal domain (a.a. 195-350) of human Arrestin beta 2 (ARRB2) (ACCESSION #BAD93023). The peptide immunogen is conserved with the rat and mouse counterparts.

### Application

The antibody titer is more than 1,000K for ELISA and tested positive for Western blot analysis of transfected total cell lysate. It has not been tested in the other applications. However, for the first testing, we recommend 1/5,000 dilution for ELISA, 1/1,000 dilution for Western blot analysis (WB) of recombinant protein, 1/400 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

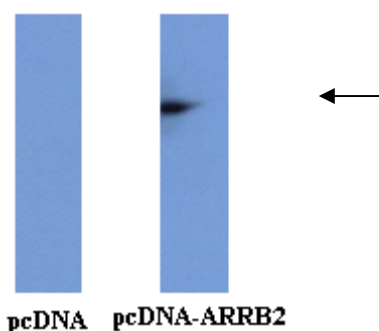
### Related Products

1. Anti-guanine nucleotide binding protein (G protein), q polypeptide (GNAQ), pAb (GB-30070)
2. Anti-luteinizing hormone/choriogonadotropin receptor (LHCGR), pAb (GB-30071)
3. Anti-adrenergic, beta-1-, receptor (ADRB1) pAb (GB-30072)
4. Anti-adrenergic, beta-2-, receptor, surface (ADRB2) pAb (GB-30073)
5. Anti-angiotensin II receptor, type 1 (AGTR1) pAb (GB-30074)

### ELISA test

Ab dilution	Pre-bleed	Purified-Ab
1:100	1.577	2.870
1:1,000	0.355	2.588
1:10,000	0.144	2.335
1:100,000	0.070	1.474
1:1,000,000	0.058	0.339
Titer		>1000K

### Western Blot Test



1. HEK293 cell transfected with pcDNA alone and pcDNA-ARRB2 (Molecular weight is ~50 KDa).
2. Each lane was loaded with 10µg total cell lysate.
3. This working concentration of the antibody is 2.75µg/ml.

### Storage

It is supplied as peptide affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

### References

1. Chen, W., Ten Berge, D., Brown, J., Ahn, S., Hu, L.A., Miller, W.E., Caron, M.G., Barak, L.S., Nüsse, R. and Lefkowitz, R.J. Dishevelled 2 recruits beta-arrestin 2 to mediate Wnt5A-stimulated endocytosis of Frizzled 4. *Science* 301 (5638): 1391-1394, 2003.
2. Ahn, S., Nelson, C.D., Garrison, T.R., Miller, W.E. and Lefkowitz, R.J. Desensitization, internalization, and signaling functions of beta-arrestins demonstrated by RNA interference. *Proc. Natl. Acad. Sci. U.S.A.* 100 (4): 1740-1744, 2003.