



Anti-Adrenergic, beta-1-, receptor (ADRB1), Rabbit-Polyclonal Antibody

Catalog No. GB-30072
Antigen species: Human
Host species: Rabbit

Quantity: 100 μ g
Reactivity: Human
Form: Peptide affinity purified antibody

Applications: ELISA

Target description

The adrenergic receptors (subtypes alpha 1, alpha 2, beta1, and beta 2) are a prototypic family of guanine nucleotide binding regulatory protein-coupled receptors that mediate the physiological effects of the hormone epinephrine and the neurotransmitter norepinephrine, and activate adenylate cyclase and in other organs mediating the action of catecholamines and sympathetic nervous system.

Ab dilution	Pre-bleed	Purified-Ab
1:0.1K	0.104	2.068
1:1K	0.078	1.595
1:10K	0.078	1.334
1:100K	0.074	0.484
1:1,000K	0.068	0.119
Titer		~859 K

Antigen is coated on EIA strips at 1 μ g per well.

Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide located on the putative extracellular domain of human adrenergic, beta-1-, receptor (ADRB1).

Application

The antibody specificity was assayed by ELISA with the synthetic ADRB1 peptide antigen. The antibody titer is more than 100K for ELISA. 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-2-, receptor, surface (ADRB2) pAb (GB-30073)
4. Anti-angiotensin II receptor, type 1 (AGTR1) pAb (GB-30074).
5. Anti-angiotensin II receptor, type 2 (AGTR2) pAb (GB-30075).

ELISA Protocol

Antigen is coated on EIA strips at 1 μ g per well. Add 200 μ l of blocking buffer and then wash wells with PBST buffer. Pre-bleed serum and peptide specific purified antibody GB-30072 is diluted in series as $10^4 \sim 10^6$ folds and added in separate wells. Incubate antibody for 1hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugate. Wash the plate and add substrate to develop color for 5 min. Read absorbance (ABS) at 650 nm. Amount of color is directly proportional to the amount of antibodies. Antibody titer is defined as >0.1 of ABS of antiserum minus pre-bleed serum.

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 \times PBS). Store at 4 $^{\circ}$ C for short-term application. For long-term storage, aliquot and store at -20 $^{\circ}$ C.

References

1. Zill, P., Baghai, T.C., Engel, R., Zwanzger, P., Schule, C., Minov, C., Behrens, S., Bottlender, R., Jager, M., Rupprecht, R., Moller, H.J., Ackenheil, M. and Bondy, B. Beta-1-adrenergic receptor gene in major depression: influence on antidepressant treatment response. *Am. J. Med. Genet.* 120B (1), 85-89 (2003)

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