

## UK Office

### Everest Biotech Ltd

Cherwell Innovation Centre  
77 Heyford Park  
Upper Heyford  
Oxfordshire  
OX25 5HD  
UK

Enquiries:

[info@everestbiotech.com](mailto:info@everestbiotech.com)

Sales:

[sales@everestbiotech.com](mailto:sales@everestbiotech.com)

Tech support:

[support@everestbiotech.com](mailto:support@everestbiotech.com)

Tel: +44 (0)1869 238326

[www.everestbiotech.com](http://www.everestbiotech.com)

**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB07133 - Goat Anti-ADRB1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** ADRB1, adrenergic, beta-1-, receptor, ADRB1R, B1AR, BETA1AR, RHR, beta-1-adrenergic receptor

**Official Symbol:** ADRB1

**Accession Number(s):** NP\_000675.1

**Human GeneID(s):** [153](#)

### Immunogen

Peptide with sequence ESDEARRCYNDPK, from the internal region of the protein sequence according to NP\_000675.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:64000.

**Western blot:** Approx 55kDa band observed in Human Heart lysates (calculated MW of 51.2kDa according to NP\_000675.1). Recommended concentration: 0.5-1.5µg/ml. Primary incubation was 1 hour.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Mouse, Rat, Dog

### Specific References

**This antibody has been successfully used in Assay Standardization of Rat Cardiomyocytes:**

Gerd Wallukat , Harald Pruss, Johannes Muller , Ingolf Schimke  
Functional autoantibodies in patients with different forms of dementia  
PLoS One. 2018 Mar 14;13(3):e0192778.  
PMID: 29538413

**This antibody has been successfully used in the following paper:**

Wenzel K, Schulze-Rothe S, Müller J, Wallukat G, Haberland A.  
Difference between beta1-adrenoceptor autoantibodies of human and animal origin-Limitations detecting beta1-adrenoceptor autoantibodies using peptide based ELISA technology.  
PLoS One. 2018 Feb 9;13(2):e0192615  
PMID: 29425252

**This antibody has been successfully used in the following paper:**

Wenzel K, Schulze-Rothe S, Haberland A, Müller J, Wallukat G, Davideit H  
Performance and in-house validation of a bioassay for the determination of beta1-auto antibodies found in patients with cardiomyopathy.  
Heliyon. 2017 Jul 31;3(7): e00362.  
PMID: 28795160

**This antibody has been successfully used for In Vitro Testing of Apheresis Column Functionality in Rat:**

Wallukat G, Haberland A, Berg S, Schulz A, Freyse EJ, Dahmen C, Kage A, Dandel M, Vetter R, Salzsieder E, Kreutz R, Schimke I.

The first aptamer-apheresis column specifically for clearing blood of  $\beta$ 1-receptor autoantibodies.

Circ J. 2012;76(10):2449-55.

PMID: 22850243

**This antibody has been successfully used in IP on DNA aptamers in vitro:**

Haberland A, Wallukat G, Dahmen C, Kage A, Schimke I.

Aptamer neutralization of beta1-adrenoceptor autoantibodies isolated from patients with cardiomyopathies.

Circ Res. 2011 Oct 14;109(9):986-92.

PMID: 21868696

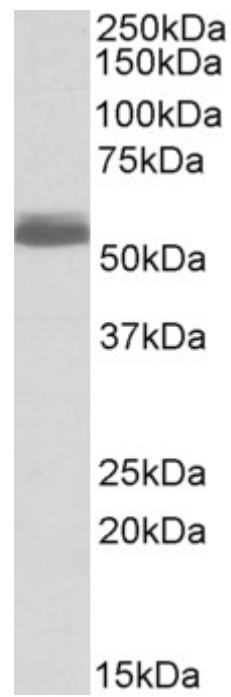
**This antibody has been successfully used in Assay Standardization (beating frequency) of Rat Cardiomyocytes:**

Wallukat G, Muñoz Saravia SG, Haberland A, Bartel S, Araujo R, Valda G, Duchon D, Diaz Ramirez I, Borges AC, Schimke I.

Distinct patterns of autoantibodies against G-protein-coupled receptors in Chagas' cardiomyopathy and megacolon. Their potential impact for early risk assessment in asymptomatic Chagas' patients.

J Am Coll Cardiol. 2010 Feb 2;55(5):463-8.

PMID: 20117461



EB07133 (0.5 $\mu$ g/ml) staining of Human Heart lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.