

## UK Office

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**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 1:8000.

**Western blot:** This antibody is not recommended for use in Western blotting.

**IHC:** Paraffin embedded Human Heart. Recommended concentration: 8µg/ml.

### Species Reactivity

**Tested:** Human

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

### Specific References

**This antibody (previous batch) has been successfully used in the following paper:**

Ting-Yu Lin, Quynh N Mai, Hao Zhang, Emily Wilson, Huan-Chieh Chien, Sook Wah Yee, Kathleen M Giacomini, Jeffrey E Olgin, Roshanak Irannejad  
Cardiac contraction and relaxation are regulated by distinct subcellular cAMP pools.  
Nat Chem Biol. 2023 Jul 20.  
PMID: 37474759

**This antibody (previous batch) 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 (previous batch) 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 (previous batch) 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 (previous batch) has been successfully used in the following paper:**

Annekathrin Haberland, Martin Holtzhauer, Alice Schlichtiger, Sabine Bartel, Ingolf  
Schimke, Johannes Müller, Michael Dandel, Peter B Lupp, Gerd Wallukat  
Aptamer BC 007 - A broad spectrum neutralizer of pathogenic autoantibodies against  
G-protein-coupled receptors  
Eur J Pharmacol. 2016 Oct 15;789:37-45.  
PMID: 27375076

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

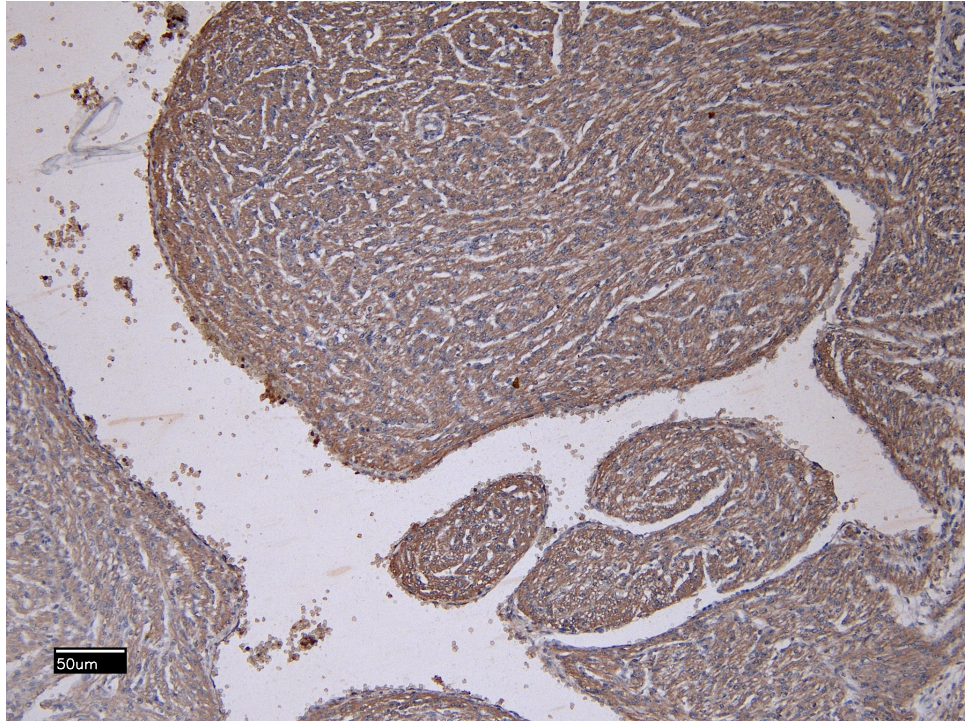
Wallukat G, Haberland A, Berg S, Schulz A, Freyse EJ, Dahmen C, Kage A, Dandel M,  
Vetter R, Salzsieder E, Kreutz R, Schimke I.  
The first aptamer-apheresis column specifically for clearing blood of  $\beta$ 1-receptor  
autoantibodies.  
Circ J. 2012;76(10):2449-55.  
PMID: 22850243

**This antibody (previous batch) has been successfully used in IP on DNA aptamers  
in vitro:**

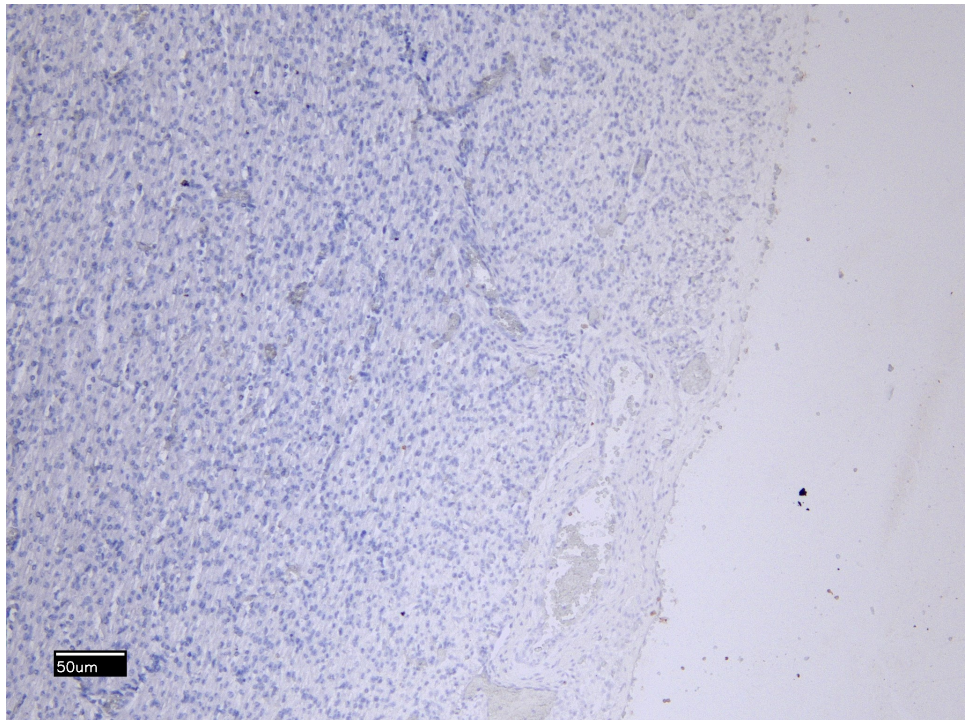
Haberland A, Wallukat G, Dahmen C, Kage A, Schimke I.  
Aptamer neutralization of beta1-adrenoceptor autoantibodies isolated from patients with  
cardiomyopathies.  
Circ Res. 2011 Oct 14;109(9):986-92.  
PMID: 21868696

**This antibody (previous batch) 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 (8µg/ml) staining of paraffin embedded Human Heart. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB07133 Negative Control showing staining of paraffin embedded Human Heart, with no primary antibody.