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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 1:64000.

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 β 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

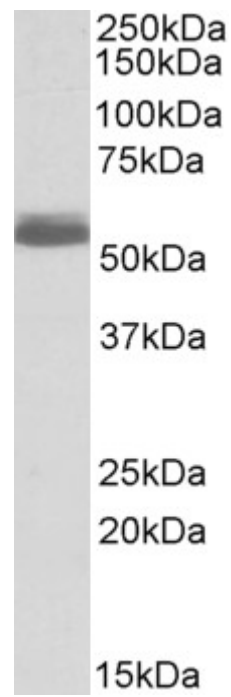
This antibody has been successfully used in Assay Standardization (beating frequency) of Rat Cardiomyocytes:

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 μ g/ml) staining of Human Heart lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.