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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 1:2000.

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

IHC: Paraffin embedded Human Heart. Recommended concentration: 6µg/ml.

Immunofluorescence: Strong expression of the protein seen in the plasma membrane and cytoplasm of HeLa cells. Recommended concentration: 10µg/ml.

Species Reactivity

Tested: Human

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

Specific References

This antibody 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 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 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 (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 (6µg/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.

EB07133 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).