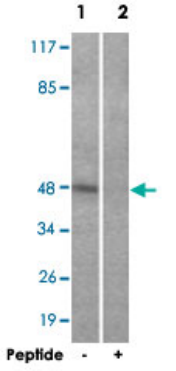
# ADRB2 polyclonal antibody

Catalog # PAB18066 Size 100 ug

## Applications




### Western Blot (Cell lysate)

Western blot analysis of extracts from NIH/3T3 cells, using ADRB2 polyclonal antibody (Cat # PAB18066).
Peptide "+" means "with peptide blocking".

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of ADRB2. |
| **Immunogen** | A synthetic peptide corresponding to residues surrounding S346 of human ADRB2. |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse |
| **Specificity** | This antibody is specific to ADRB2. |
| **Form** | Liquid |
| **Recommend Usage** | Western Blot (1:500~1:1000)<br>Immunohistochemistry (1:50~1:100)<br>Immunofluorescence (1:500~1:1000)<br>ELISA (1:5000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |

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| | |
|---|---|
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry
- Immunofluorescence
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Cell lysate)

  Western blot analysis of extracts from NIH/3T3 cells, using ADRB2 polyclonal antibody (Cat # PAB18066). Peptide "+" means "with peptide blocking".

## Gene Info — ADRB2

| | |
|---|---|
| **Entrez GeneID** | 154 |
| **Protein Accession#** | P07550 |
| **Gene Name** | ADRB2 |
| **Gene Alias** | ADRB2R, ADRBR, B2AR, BAR, BETA2AR |
| **Gene Description** | adrenergic, beta-2-, receptor, surface |
| **Omim ID** | 109690 600807 601665 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes beta-2-adrenergic receptor which is a member of the G protein-coupled rece ptor superfamily. This receptor is directly associated with one of its ultimate effectors, the class C L-type calcium channel Ca(V)1.2. This receptor-channel complex also contains a G protein, an ad enylyl cyclase, cAMP-dependent kinase, and the counterbalancing phosphatase, PP2A. The asse mbly of the signaling complex provides a mechanism that ensures specific and rapid signaling by this G protein-coupled receptor. This gene is intronless. Different polymorphic forms, point mutati ons, and/or downregulation of this gene are associated with nocturnal asthma, obesity and type 2 diabetes. [provided by RefSeq |
| **Other Designations** | beta-2 adrenergic receptor\|beta-2 adrenoceptor\|catecholamine receptor |

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## Publication Reference

- Beta 2 adrenergic receptor gene methylation activates innate lymphoid cells to drive hypertension in lymphocyte deficient hosts.

  Wei Chen, Sara Perrotta, Liang Xiao, Lorenzo Carnevale, Marwa A Abd-Eldayem, Elizabeth M Hennen, Luis Miguel Rivera-Medina, David M Patrick, Mingfang Ao, Fabio Pallante, Azzurra Zonfrilli, Shilin Zhao, Agnese Migliaccio, Lan Lan, Stefania Fardella, Giuseppe Scium癡, Francesco Mastroiacovo, Giuseppe Lembo, Daniela Carnevale, David G Harrison

  Cardiovasc Res 2025 5; 121(5):817-831.

- Modulation of postendocytic sorting of G protein-coupled receptors.

  Whistler JL, Enquist J, Marley A, Fong J, Gladher F, Tsuruda P, Murray SR, Von Zastrow M.

  Science 2002 Jul; 297(5581):615.

- Amino-terminal polymorphisms of the human beta 2-adrenergic receptor impart distinct agonist-promoted regulatory properties.

  S A Green, J Turki, M Innis, S B Liggett.

  Biochemistry 1994 Aug; 33(32):9414.

  Application: WB-Tr, Hamster, CHW cells

- Primary structure of the human beta-adrenergic receptor gene.

  Schofield PR, Rhee LM, Peralta EG.

  Nucleic Acids Research 1987 Apr; 15(8):3636.

## Pathway

- Calcium signaling pathway
- Endocytosis
- Neuroactive ligand-receptor interaction

## Disease

- Acanthosis Nigricans
- Acromegaly

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- Acute Disease
- Albuminuria
- Altitude Sickness
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Anemia
- Angina
- Anorexia Nervosa
- Arteriosclerosis
- Arthritis
- Asthma
- Atherosclerosis
- Atrial Fibrillation
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Awareness
- Birth Weight
- Body Weight
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Bronchiectasis
- Bronchiolitis
- Bulimia
- Calcinosis

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- Cardiac Output
- Cardiomegaly
- Cardiomyopathy
- Cardiovascular Diseases
- Cerebral Palsy
- Cerebrovascular Accident
- Chlamydia Infections
- Chorioamnionitis
- Chronic Disease
- Cognition
- Colon cancer
- Colorectal Neoplasms
- Connective Tissue Diseases
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Stenosis
- Cough
- Cystic fibrosis
- Cystitis
- Death
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Disease Models
- Disease Progression

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- Disease Susceptibility
- Diseases in Twins
- Drug Toxicity
- Ductus Arteriosus
- Dyslipidemias
- Edema
- Emergencies
- Eosinophilia
- Fatty Liver
- Fetal Diseases
- Fetal Membranes
- Fibromyalgia
- Food Hypersensitivity
- Genetic Predisposition to Disease
- Glaucoma
- Glomerulonephritis
- Glucose Intolerance
- Glucose Metabolism Disorders
- Graves Disease
- Graves Ophthalmopathy
- Heart Failure
- HIV Infections
- HIV-Associated Lipodystrophy Syndrome
- Hydrophthalmos
- Hypercholesterolemia

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- Hyperinsulinism
- Hyperlipidemias
- Hyperlipoproteinemia Type II
- Hypersensitivity
- Hypertension
- Hypertriglyceridemia
- Hypertrophy
- Hyperuricemia
- Hypoglycemia
- Hypokalemia
- Hypokalemic Periodic Paralysis
- Hypotension
- Infant
- Infection
- Infertility
- Inflammation
- Insulin Resistance
- Kidney Diseases
- Kidney Failure
- Limb Deformities
- Liver Cirrhosis
- Long QT syndrome
- Low Tension Glaucoma
- Lung Diseases
- Lung Neoplasms
- Lymphoma

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- Meningococcal Infections
- Mental Disorders
- Mental Health
- Metabolic Diseases
- Metabolic Syndrome X
- Migraine Disorders
- Multiple Sclerosis
- Musculoskeletal Diseases
- Myocardial Infarction
- Myocardial Ischemia
- Myocardial Stunning
- Nasal Polyps
- Neoplasms
- Nephrosclerosis
- Neuropsychological Tests
- Obesity
- Obstetric Labor
- Occupational Diseases
- Osteoporosis
- Ovarian Failure
- Overweight
- Pain
- Placenta Diseases
- Pneumonia
- Polycystic Ovary Syndrome
- Pre-Eclampsia

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- Pregnancy Complications
- Premature Birth
- Prenatal Exposure Delayed Effects
- Prostatic Neoplasms
- Psychometrics
- Puberty
- Pulmonary Disease
- Pulmonary Edema
- Pulmonary Embolism
- Radius Fractures
- Recurrence
- Reflex Sympathetic Dystrophy
- Renal Insufficiency
- Respiration Disorders
- Respiratory Distress Syndrome
- Respiratory Hypersensitivity
- Respiratory Sounds
- Respiratory Syncytial Virus Infections
- Rhinitis
- Shock
- Skin Diseases
- Sleep Apnea
- Status Asthmaticus
- Stress
- Stroke
- Subarachnoid Hemorrhage

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- Syncope
- Syndrome
- Tachycardia
- Takotsubo Cardiomyopathy
- Task Performance and Analysis
- Temporomandibular Joint Disorders
- Thinness
- Thromboembolism
- Thrombophilia
- Thrombosis
- Tobacco Use Disorder
- Trachoma
- Tremor
- Urticaria
- Venous Thrombosis
- Ventricular Dysfunction
- Ventricular Fibrillation
- Weight Gain
- Weight Loss
- Werner syndrome
- Wounds and Injuries

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