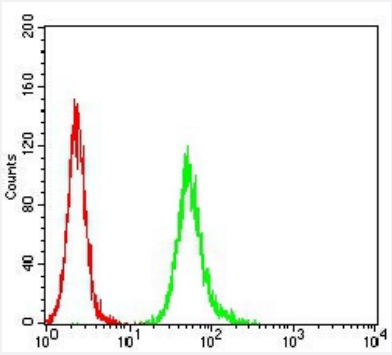
ADRB2 monoclonal antibody, clone 4A6C9

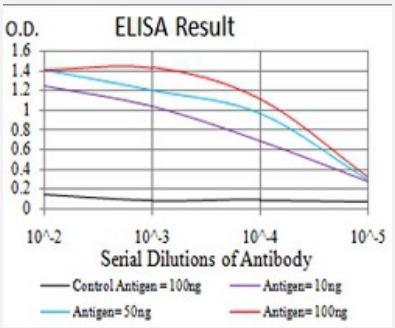
Catalog # MAB17485 Size 100 ug

Applications



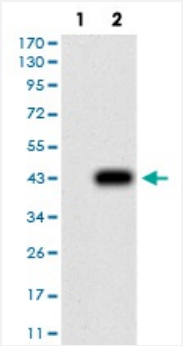
Flow Cytometry

Flow cytometric analysis of Hela cells with ADRB2 monoclonal antibody (green) and negative control (red).



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of ADRB2 monoclonal antibody, clone 4A6C9.



Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) ADRB2-hIgGFc transfected HEK293 cell lysate.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human ADRB2.

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Immunogen	Recombinant protein corresponding to amino acid 302-413 of human ADRB2 from *E. coli*.
Host	Mouse
Theoretical MW (kDa)	46.5
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry Immunocytochemistry Flow Cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

  Flow cytometric analysis of Hela cells with ADRB2 monoclonal antibody (green) and negative control (red).

- Enzyme-linked Immunoabsorbent Assay

  ELISA analysis of ADRB2 monoclonal antibody, clone 4A6C9.

- Western Blot (Transfected lysate)

  Western blot analysis of (1) HEK293 cells, (2) ADRB2-hIgGFc transfected HEK293 cell lysate.

Gene Info — ADRB2

Entrez GeneID	154
Gene Name	ADRB2
Gene Alias	ADRB2R, ADRBR, B2AR, BAR, BETA2AR

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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 receptor 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 adenylyl cyclase, cAMP-dependent kinase, and the counterbalancing phosphatase, PP2A. The assembly 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 mutations, 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

Publication Reference

- Salutary effects of moderate but not high intensity aerobic exercise training on the frequency of peripheral T-cells associated with immunosenescence in older women at high risk of breast cancer: a randomized controlled trial.

  Grace M Niemiro, Adriana M Coletta, Nadia H. Agha, Preteesh Leo Mylabathula, Forrest L. Baker, Abenaa M Brewster, Therese B Bevers, Enrique Fuentes-Mattei, Karen Basen-Engquist, Emmanuel Katsanis, Susan C Gilchrist, Richard J. Simpson.

  Immunity & Ageing 2022 Mar; 19(1):17.

  Application: Flow cyt, Human, Human blood

Pathway

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

Disease

- Acanthosis Nigricans
- Acromegaly
- Acute Disease

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- 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
- Cardiac Output

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- 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
- Disease Susceptibility

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- 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
- Hyperinsulinism
- Hyperlipidemias

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- 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
- Meningococcal Infections

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- 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
- Pregnancy Complications
- Premature Birth

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- 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
- Syncope
- Syndrome

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- 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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