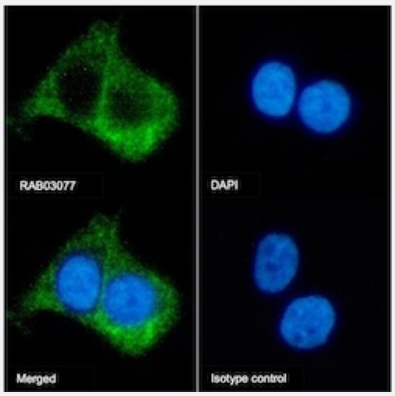
RecomAb™

ADRB2 recombinant monoclonal antibody, clone R11/E1

Catalog # RAB03677 Size 200 ug

Applications



Immunofluorescence

Immunofluorescent staining of A431 cells with ADRB2 recombinant monoclonal antibody, clone R11/E1 (Cat # RAB03077).
Immunofluorescence analysis of paraformaldehyde fixed A431 cells on Shi-fix™ coverslips stained with the chimeric r version of RAB03077 at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/ml)- showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right- top-bottom RAB03077- DAPI- merged channels and an isotype control. The isotype control was an unknown specificity antibody (.1) followed by staining with Alexa Fluor® 488 secondary antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ADRB2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human ADRB2.
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Isotype	IgG kappa

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Recommend Usage	Flow Cytometry Immunofluorescence Immunoprecipitation Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS with 0.02% Proclin 300
Storage Instruction	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunofluorescence

  Immunofluorescent staining of A431 cells with ADRB2 recombinant monoclonal antibody, clone R11/E1 (Cat # RAB03077). Immunofluorescence analysis of paraformaldehyde fixed A431 cells on Shi-fix™ coverslips stained with the chimeric r version of RAB03077 at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/ml)- showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right- top-bottom RAB03077- DAPI- merged channels and an isotype control. The isotype control was an unknown specificity antibody (.1) followed by staining with Alexa Fluor® 488 secondary antibody.

- Flow Cytometry
- Immunoprecipitation
- Western Blot

Gene Info — ADRB2

Entrez GeneID	154
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

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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

Pathway

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

Disease

- Acanthosis Nigricans
- Acromegaly
- Acute Disease
- Albuminuria
- Altitude Sickness
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Anemia
- Angina
- Anorexia Nervosa
- Arteriosclerosis
- Arthritis
- Asthma

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- 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
- Cardiomegaly
- Cardiomyopathy
- Cardiovascular Diseases
- Cerebral Palsy
- Cerebrovascular Accident
- Chlamydia Infections
- Chorioamnionitis
- Chronic Disease
- Cognition
- Colon cancer

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- 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
- Diseases in Twins
- Drug Toxicity
- Ductus Arteriosus
- Dyslipidemias
- Edema
- Emergencies
- Eosinophilia
- Fatty Liver
- Fetal Diseases
- Fetal Membranes

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- 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
- Hyperlipoproteinemia Type II
- Hypersensitivity
- Hypertension
- Hypertriglyceridemia
- Hypertrophy
- Hyperuricemia
- Hypoglycemia
- Hypokalemia
- Hypokalemic Periodic Paralysis
- Hypotension

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- 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
- Mental Disorders
- Mental Health
- Metabolic Diseases
- Metabolic Syndrome X
- Migraine Disorders
- Multiple Sclerosis
- Musculoskeletal Diseases
- Myocardial Infarction
- Myocardial Ischemia
- Myocardial Stunning
- Nasal Polyps

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- 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
- Prenatal Exposure Delayed Effects
- Prostatic Neoplasms
- Psychometrics
- Puberty
- Pulmonary Disease
- Pulmonary Edema
- Pulmonary Embolism
- Radius Fractures
- Recurrence
- Reflex Sympathetic Dystrophy

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- 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
- Tachycardia
- Takotsubo Cardiomyopathy
- Task Performance and Analysis
- Temporomandibular Joint Disorders
- Thinness
- Thromboembolism
- Thrombophilia
- Thrombosis
- Tobacco Use Disorder
- Trachoma

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- Tremor
- Urticaria
- Venous Thrombosis
- Ventricular Dysfunction
- Ventricular Fibrillation
- Weight Gain
- Weight Loss
- Werner syndrome
- Wounds and Injuries

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