



AR-β1 Polyclonal Antibody

Catalog No	YP-Ab-13150
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	ADRB1
Protein Name	Beta-1 adrenergic receptor
Immunogen	The antiserum was produced against synthesized peptide derived from human ADRB1. AA range:281-330
Specificity	AR-β1 Polyclonal Antibody detects endogenous levels of AR-β1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ADRB1; ADRB1R; B1AR; Beta-1 adrenergic receptor; Beta-1 adrenoreceptor; Beta-1 adrenoceptor
Observed Band	51kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Early endosome. Colocalizes with RAPGEF2 at the plasma membrane (By similarity). Localized at the plasma membrane. Found in the Golgi upon GOPC overexpression. .
Tissue Specificity	Placenta,
Function	domain:The PDZ domain-binding motif mediates competitive interactions with GOPC, MAGI3 and DLG4 and plays a role in subcellular location of the receptor.,function:Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. This receptor binds epinephrine and norepinephrine with approximately equal affinity.,PTM:Homologous desensitization of the receptor is mediated by its phosphorylation by beta-adrenergic receptor kinase.,similarity:Belongs to the G-protein coupled receptor 1 family.,subcellular location:Localized at the plasma membrane. Found in the Golgi upon GOPC overexpression.,subunit:Interacts with GOPC, MAGI3 and DLG4.,



Background

The adrenergic receptors (subtypes alpha 1, alpha 2, beta 1, and beta 2) are a prototypic family of guanine nucleotide binding regulatory protein-coupled receptors that mediate the physiological effects of the hormone epinephrine and the neurotransmitter norepinephrine. Specific polymorphisms in this gene have been shown to affect the resting heart rate and can be involved in heart failure. [provided by RefSeq, Jul 2008],

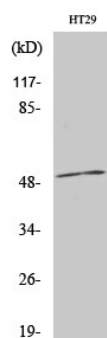
matters needing attention

Avoid repeated freezing and thawing!

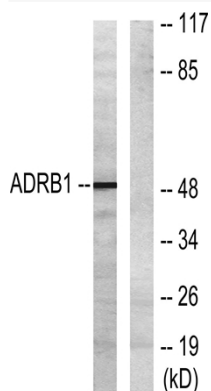
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

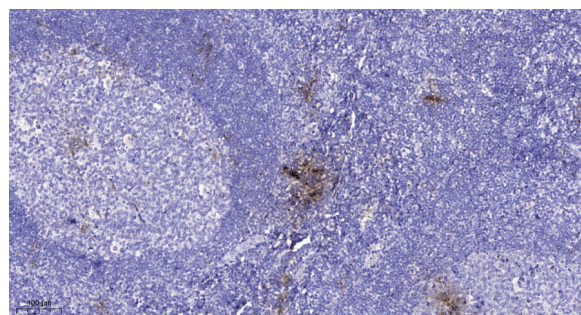
Products Images



Western Blot analysis of various cells using AR-β1 Polyclonal Antibody



Western blot analysis of lysates from HT-29 cells, using ADRB1 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).