

AR-β1 Polyclonal Antibody

Catalog No :	YT0359
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	AR-β1
Fields :	>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>Neuroactive ligand-receptor interaction;>>Adrenergic signaling in cardiomyocytes;>>Gap junction;>>Regulation of lipolysis in adipocytes;>>Renin secretion;>>Salivary secretion;>>Chemical carcinogenesis - receptor activation;>>Dilated cardiomyopathy
Gene Name :	ADRB1
Protein Name :	Beta-1 adrenergic receptor
Human Gene Id :	153
Human Swiss Prot No :	P08588
Mouse Gene Id :	11554
Mouse Swiss Prot No :	P34971
Rat Gene Id :	24925
Rat Swiss Prot No :	P18090
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

Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	51kD
Cell Pathway :	Calcium;Neuroactive ligand-receptor interaction;Endocytosis;Gap junction;Dilated cardiomyopathy;
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],
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.,
Subcellular Location :	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. .
Expression :	Placenta,
Tag :	hot
Sort :	1
No4 :	1

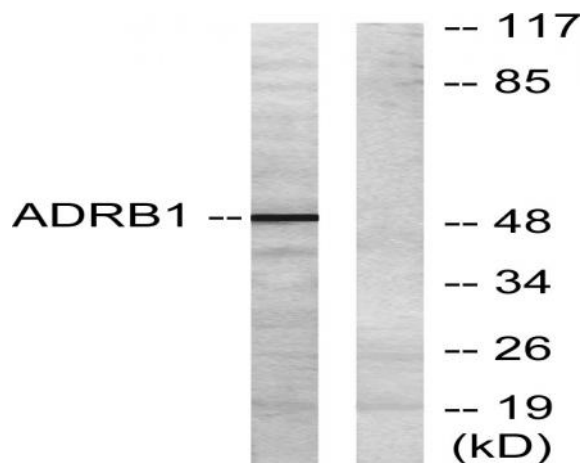
Host : Rabbit

Modifications : Unmodified

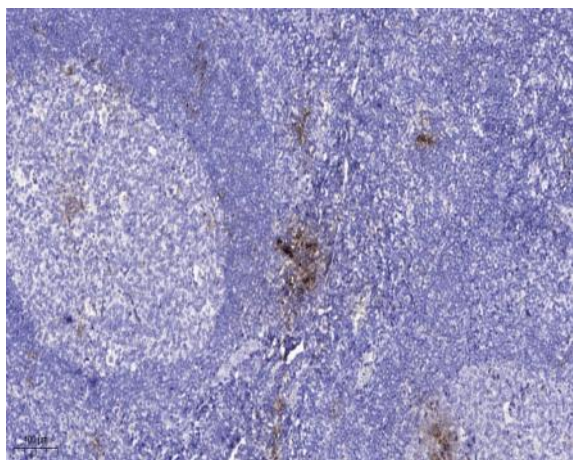
Products Images



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).