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AR-β1 Polyclonal Antibody

Catalog # AP68542

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	P08588
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51224

Additional Information

Gene ID	153
Other Names	ADRB1; ADRB1R; B1AR; Beta-1 adrenergic receptor; Beta-1 adrenoreceptor; Beta-1 adrenoceptor
Dilution	WB~~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. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

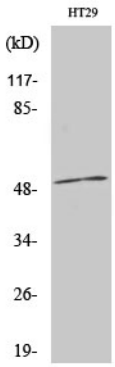
Name	ADRB1 (HGNC:285)
Synonyms	ADRB1R, B1AR
Function	G protein-coupled receptor for catecholamines that couples to G(s) proteins to activate adenylate cyclase and cAMP-dependent pathway (PubMed:10212248, PubMed:12391161, PubMed:15358775). Binds epinephrine and norepinephrine with approximately equal affinity (PubMed:33093660). Mediates the activation of Ras via binding with cAMP-dependent RAPGEF2 (PubMed:12391161). As part of the sympathetic nervous system, plays a role in the physiologic regulation of cardiac functions such as stimulation of cardiomyocyte contraction (PubMed:11052857). Also delivers proapoptotic signals in cardiomyocytes (By similarity). Involved in the regulation of sleep/wake behaviors (PubMed:11854867, PubMed:31473062).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P18090}; Multi-pass membrane protein Note=Colocalizes with RAPGEF2 at the plasma membrane (By similarity) Localized at the plasma membrane (By similarity). Found in the

Golgi upon GOPC overexpression (PubMed:15358775). Localized to early endosomes during endocytic trafficking (PubMed:21540189) {ECO:0000250|UniProtKB:P18090, ECO:0000269|PubMed:15358775, ECO:0000269|PubMed:21540189}

Background

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. Mediates Ras activation through G(s)-alpha- and cAMP-mediated signaling.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.