

Rabbit Anti-phospho-beta 2 Adrenergic Receptor (Ser355 + Ser356) antibody

SL12979R

Product Name:	phospho-beta 2 Adrenergic Receptor (Ser355 + Ser356)
Chinese Name:	磷酸化肾上腺素能受体β2/β2-AR抗体
Alias:	beta 2 Adrenergic Receptor (phospho S355 + S356); beta 2 Adrenergic Receptor (phospho S346); p-beta 2 Adrenergic Receptor (phospho S346); β2-adrenergic receptor;
	beta 2 Adrenergic Receptor; ADRB2; ADRB2R; ADRBR; ADRB2_HUMAN;
	Adrenergic beta 2 receptor surface; B2AR; BAR; beta 2 adrenoceptor; Beta 2
	adrenoreceptor; BETA2AR; Catecholamine receptor; beta2-adrenergic receptor.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Rabbit,
_	WB=1:500-2000ELISA=1:500-1000
Applications:	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	46kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human beta 2 Adrenergic Receptor around the phosphorylation site of Ser355 + Ser356:GY(p-S)(p-S)N
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

Product Detail:	 Beta 2 Adrenergic Receptor 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 contains no introns in either its coding or untranslated sequences. Different polymorphic forms, point mutations, and/or downregulation of this gene are associated with nocturnal asthma, obesity and type 2 diabetes. Expression of the beta 2 Adrenergic Receptor has been reported in adipose, blood, brain, heart, lung, nose, pancreas, skeletal muscle, skin, and vessel. Function: Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. The beta-2-adrenergic receptor binds epinephrine with an approximately 30-fold greater affinity than it does norepinephrine. Subunit: Binds SLC9A3R1 and GPRASP1. Interacts with ARRB1 and ARRB2. Interacts with SRC, USP20 and USP33. Interacts with VHL is interaction, which is increased on hydroxylation of ADRB2, ubiquitinates ADRB2 leading to its degradation. Interacts with FGL.N3; the interaction hydroxylates ADRB2 facilitating VHL-E3 ligase-mediated ubiquitination. Subcellular Location: Cell membrane; Multi-pass membrane protein. Note=Colocalizes with VHL at the cell membrane. Post-translational modifications: Palmitoylated; may reduce accessibility of Ser-345 and Ser-346 by anchoring Cys-341 to the plasma membrane. Agonist stimulation promotes depalmitoylation and further allows Ser-345 and Ser-346 phosphorylation or the receptor. Phosphorylation of Tyr-141 is induced by insulin and leads to supersens
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Belongs to the G-protein coupled receptor 1 family.
Adrenergic receptor subfamily. ADRB2 sub-subfamily.
SWISS:
P07550
Gene ID:
154
Database links:
Entrez Gene: 154 Human
Entrez Gene: 11555 Mouse
Entrez Gene: 24176 Rat
Entrez Gene: 11555 Mouse Entrez Gene: 24176 Rat Omim: 109690 Human SwissProt: P07550 Human SwissProt: P18762 Mouse SwissProt: P10608 Rat
$\mathbf{C}^{\mathbf{N}}$
SwissProt: P07550 Human
Swigs Prote D19762 Manage
SwissProt: P18762 Mouse
SwissProt: P10608 Rat
Unigene: 2551 Human
Unigene: 5598 Mouse
Unis and 1020 C D at
Unigene: 10206 Rat
Important Note:
This product as supplied is intended for research use only, not for use in human,
therapeutic or diagnostic applications.



