

Product datasheet for **AP20290PU-M**

beta 2 Adrenergic Receptor (ADRB2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections 1/50 - 1/200. Immunofluorescence: 1/50 - 1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 311-360 of Human AR-β2.
Specificity:	AR-β2 (L342) pAb detects endogenous levels of AR-β2 protein.
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 47 kDa, 68 kDa (glycosylated), 95 kDa (Dimer)
Gene Name:	adrenoceptor beta 2
Database Link:	Entrez Gene 154 Human P07550



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Background:

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.

Synonyms:

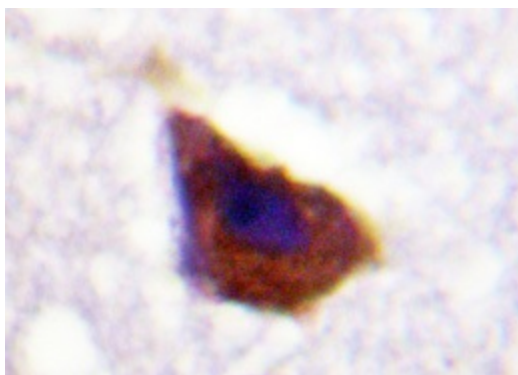
ADRB2, ADRB2R, B2AR, Beta-2 adrenoreceptor

Protein Families:

Druggable Genome, GPCR, Transmembrane

Protein Pathways:

Calcium signaling pathway, Endocytosis, Neuroactive ligand-receptor interaction

Product images:


Immunohistochemistry analysis of AR-β2 antibody in paraffin-embedded human brain tissue.