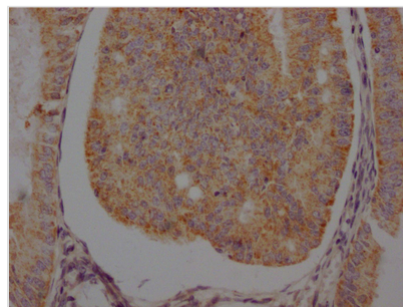




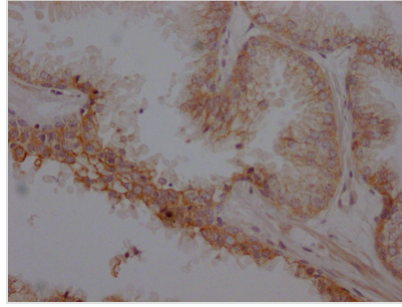
# ADRB2 Antibody

<b>Product Code</b>	CSB-RA286054A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P07550
<b>Immunogen</b>	A synthesized peptide derived from human beta 2 Adrenergic Receptor
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
<b>Relevance</b>	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.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cardiovascular; Signal transduction
<b>Gene Names</b>	ADRB2
<b>Accession NO.</b>	4C11

## Image



IHC image of CSB-RA286054A0HU diluted at 1:100 and staining in paraffin-embedded human endometrial cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA286054A0HU diluted at 1:100 and staining in paraffin-embedded human prostate cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

## Description

ADRB2 is a cell membrane-spanning beta-adrenergic receptor that binds adrenaline, a hormone and neurotransmitter whose signaling mediates physiologic responses such as smooth muscle relaxation and bronchodilation via adenylate cyclase stimulation via trimeric Gs proteins, increased cAMP, and downstream L-type calcium channel interaction. By blocking the ERK1/2-JNK-MAPK pathway and transcription factors such as NF-kappa B, AP-1, CREB, and STAT3, ADRB2 antagonists inhibited proliferation, invasion, and metastasis. ADRB2 gene downregulation has been linked to nocturnal asthma, obesity, and type 2 diabetes.

The production of this recombinant ADRB2 antibody started with identifying and cloning the genes for antibody expression. After the ADRB2 antibody was cloned into an expression plasmid, the plasmid could be introduced into the mammalian cell to produce the target recombinant antibody. This recombinant ADRB2 antibody has been validated in ELISA, IHC.