

# Anti-Beta-3 Adrenergic Receptor Antibody

Rabbit polyclonal antibody to Beta-3 Adrenergic Receptor  
Catalog # AP59961

## Product Information

---

<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P13945</a>
<b>Other Accession</b>	<a href="#">P25962</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	43519

## Additional Information

---

<b>Gene ID</b>	155
<b>Other Names</b>	ADRB3R; B3AR; Beta-3 adrenergic receptor; Beta-3 adrenoreceptor; Beta-3 adrenoceptor
<b>Target/Specificity</b>	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Beta-3 Adrenergic Receptor. The exact sequence is proprietary.
<b>Dilution</b>	WB--WB (1/500 - 1/1000)
<b>Format</b>	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
<b>Storage</b>	Store at -20 °C. Stable for 12 months from date of receipt

## Protein Information

---

<b>Name</b>	ADRB3 ( <a href="#">HGNC:288</a> )
<b>Synonyms</b>	ADRB3R, B3AR
<b>Function</b>	G protein-coupled receptor for catecholamines that couples to both G(s) and G(i) proteins, leading to either activation or inhibition of adenylate cyclase and cAMP-dependent pathway, respectively (PubMed: <a href="#">10188996</a> , PubMed: <a href="#">2570461</a> , PubMed: <a href="#">8641219</a> ). The rank order of potency for physiological agonists is norepinephrine > epinephrine (PubMed: <a href="#">10188996</a> , PubMed: <a href="#">2570461</a> , PubMed: <a href="#">8641219</a> ). Involved in the regulation of thermogenesis and lipolysis in brown and white adipose tissue, after coupling to G(s) proteins and stimulation of the cAMP-PKA axis (By similarity). Also activates lipolytic process by coupling to G(i) proteins and consequent initiation of the ERK1/2 MAP kinase cascade (PubMed: <a href="#">10207024</a> ). Participates

in relaxation of the blood vessels and the urinary bladder (PubMed:[10188996](#)). Also mediates negative inotropic effects in cardiomyocytes through activation of an NO synthase pathway and subsequent increase in cGMP levels, possibly involving G(i/o) protein-mediated coupling (PubMed:[9769330](#)).

**Cellular Location** Cell membrane; Multi-pass membrane protein  
{ECO:0000250|UniProtKB:O02662}

**Tissue Location** Expressed mainly in adipose tissues.

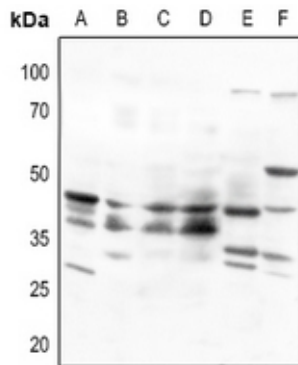
## Background

---

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Beta-3 Adrenergic Receptor. The exact sequence is proprietary.

## Images

---



Western blot analysis of Beta-3 Adrenergic Receptor expression in HEK293T (A), Hela (B), HepG2 (C), A2780 (D), mouse kidney (E), rat liver (F) whole cell lysates.

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