

**Beta3-AR Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10727****Specification**

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**Beta3-AR Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P26255</a>
Other Accession	<a href="#">NP_037240.1</a>
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	43146

**Beta3-AR Antibody - Additional Information****Gene ID** 25645

Positive Control	Rat kidney tissue lysate
Application & Usage	Western blot analysis (1-4 µg/ml). However, the optimal conditions should be determined individually. Rat kidney tissue lysate can be used as a positive control.

**Other Names**

Beta-3 AR, beta 3-AR, Beta-3 adrenoceptor, beta3-adrenergic receptor, beta-3 adrenoreceptor

**Target/Specificity**

AR-Beta3

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

200 µg (0.5 mg/ml) affinity purified rabbit anti-Beta3-AR polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

Beta3-AR Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### **Beta3-AR Antibody - Protein Information**

**Name** Adrb3

**Synonyms** Adrb3r

#### **Function**

Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. Beta- 3 is involved in the regulation of lipolysis and thermogenesis.

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein.

#### **Tissue Location**

White and brown adipose tissues, and digestive tract

### **Beta3-AR Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Beta3-AR Antibody - Images**

### **Beta3-AR Antibody - Background**

The neurotransmitter/hormone adrenaline (epinephrine, adrenalin) plays a central role in the mammalian stress response, increasing heart rate, raising blood pressure, and increasing blood glucose levels. Adrenaline activates both alpha-adrenergic receptors and beta-adrenergic receptors. There are mainly three subtypes of beta adrenergic receptors known, beta1, beta2, and beta3. These receptors are expressed primarily in the heart, respiratory tissue, and adipose tissue. Beta3-receptors are abundant in brown adipocytes and play vital roles in lipolysis and thermoregulation. Beta adrenergic receptors are gaining much interest among researches in the studies of type-2 diabetes mellitus and obesity. It is also being considered as a therapeutic target for heart failure.