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# Anti-Beta-3 Adrenergic Receptor Antibody

Catalog # AP59961

## Product Information

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| **Application** | WB |
| **Primary Accession** | P13945 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 43519 |

## Additional Information

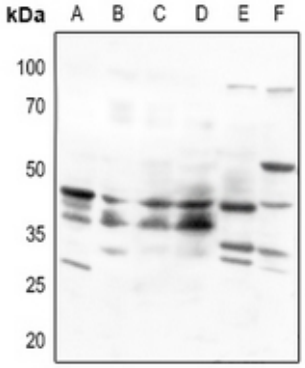
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| **Gene ID** | 155 |
| **Other Names** | ADRB3R; B3AR; Beta-3 adrenergic receptor; Beta-3 adrenoreceptor; Beta-3 adrenoceptor |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Beta-3 Adrenergic Receptor. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000) |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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| **Name** | ADRB3 ( HGNC:288) |
| **Synonyms** | ADRB3R, B3AR |
| **Function** | 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:10188996, PubMed:2570461, PubMed:8641219). The rank order of potency for physiological agonists is norepinephrine > epinephrine (PubMed:10188996, PubMed:2570461, PubMed:8641219). 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:10207024). Participates in relaxation of the blood vessels and the urinary bladder (PubMed:10188996). Also mediates negative inotropic effects in |

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| | 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. |

## 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. (Predicted band size: 43 kD; Observed band size: 44; 68 kD)

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