SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-ADRB3 antibody

Catalog Number: SL1063R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ADRB3
Immunogen:	KLH conjugated synthetic peptide derived from human ADRB3: 310-408/408 <Cytoplasmic>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Rat, (predicted: Mouse, Dog, Pig, Sheep)
Predicted MW.:	44kDa
Subcellular Location:	The cell membrane
Background:	beta 3 Adrenergic Receptor is located mainly in adipose tissue and is involved in the regulation of lipolysis and thermogenesis. Beta adrenergic receptors are involved in the epenephrine and norepinephrine-induced activation of adenylate cyclase through the action of G proteins. beta 3 Adrenergic Receptor expression has been documented in adipose tissues, heart, and in smooth muscle of digestive and urinary tract organs (bladder, colon, small intestine, stomach, ureter). Utilization of alternate promoters and/or 3-prime untranslated regions may result in tissue-specific regulation of the expression of this protein. **Function:** Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. Beta-3 is

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	involved in the regulation of lipolysis and thermogenesis. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **Tissue Specificity:** Expressed mainly in adipose tissues. **Similarity:** Belongs to the G-protein coupled receptor 1 family. Adrenergic receptor subfamily. ADRB3 sub-subfamily. **Database links:** **Entrez Gene:** 155 Human **Entrez Gene:** 11556 Mouse **Entrez Gene:** 25645 Rat **SwissProt:** P13945 Human **SwissProt:** P25962 Mouse **SwissProt:** P26255 Rat **Unigene:** 2549 Human **Unigene:** 278475 Mouse **Unigene:** 10100 Rat Omim: 109691 Human ARβ3was newly discovered, the third β-type adrenergic receptor subtype after β1 and β2. Molecular weight: 44KDa (404AA) In recent years, studies have shown:β3-mutations or polymorphisms in the gene for this adrenergic receptor are associated with obesity and Cardiovascular diseases;the content of this receptor is significantly increased in heart failure,β3research on the relationship between adrenergic receptors and Cardiovascular diseases may provide new approaches for the prediction, prevention, and treatment of Cardiovascular diseases.

[VALIDATION IMAGES]

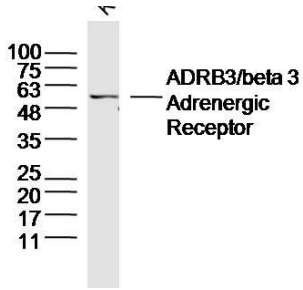


Figure 1. Sample: K562(Human) Cell Lysate at 40 ug Primary: Anti-beta 3 Adrenergic Receptor (SL1063R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 44 kD Observed band size: 54 kD

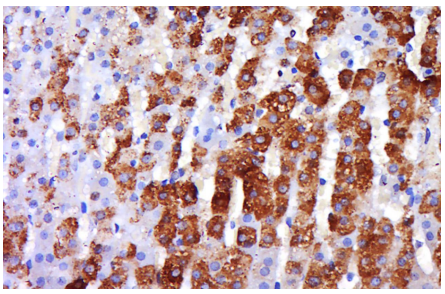


Figure 2. Tissue/cell: Rat adrenal gland; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-ADRB3 Polyclonal Antibody, Unconjugated(SL1063R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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