



Rabbit Anti-ADRB3 antibody

SL1063R

Product Name:	ADRB3
Chinese Name:	β3肾上腺素能受体抗体
Alias:	beta 3 Adrenergic Receptor; beta3-adrenergic receptor; beta3-AR; adrenergic; beta-3-receptor; ADR B3; ADRB 3; ADRB3R; Adrenergic beta 3 receptor; B3AR; Beta 3 adrenoceptor; Beta 3 adrenoceptor; Beta 3AR; B3AR; BETA3AR; ADRB3_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	44kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ADRB3:310-408/408<Cytoplasmic>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 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.

SWISS:

P25962

Gene ID:

155

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

Important Note:

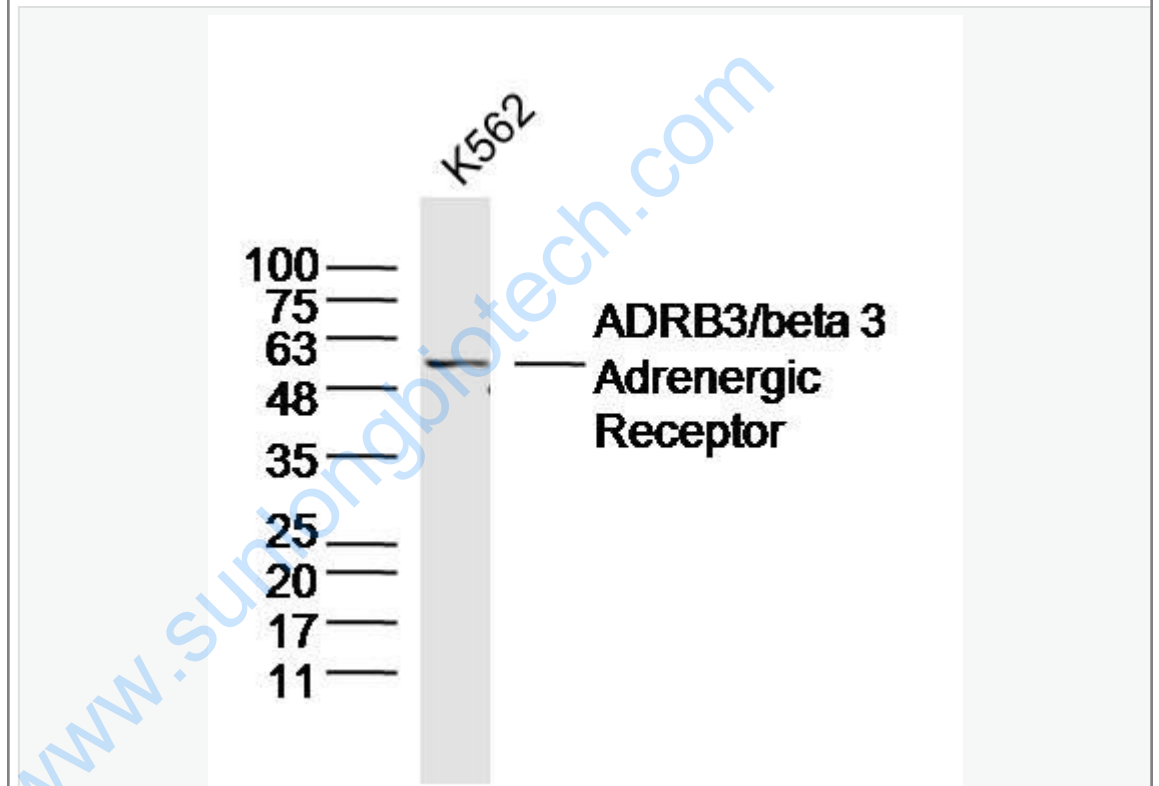
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

AR β 3是新近发现的,继 β 1和 β 2之后的第3个 β 型肾上腺素受体亚型.分子量:44KDa(404AA)

近年来研究表明: β 3-

肾上腺素受体该受体基因突变或基因多态性与机体肥胖及Cardiovascular疾病相关;心力衰竭时该受体的含量明显增加, β 3肾上腺素能受体与Cardiovascular疾病的相关研究可能为Cardiovascular疾病的预测、防治的新方法.

Picture:



Sample:

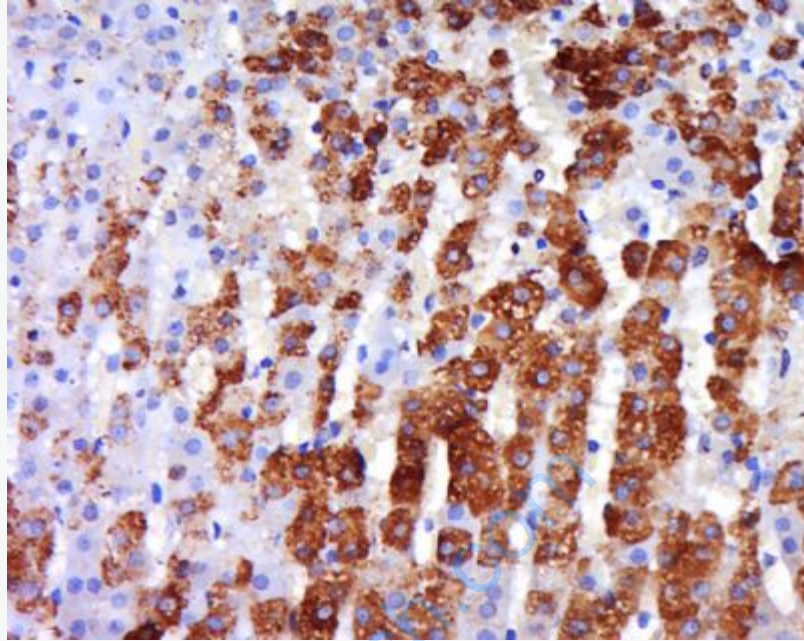
K562(Human) Cell Lysate at 40 ug

Primary: Anti-beta 3 Adrenergic Receptor (SL1063R) at 1/300 dilution

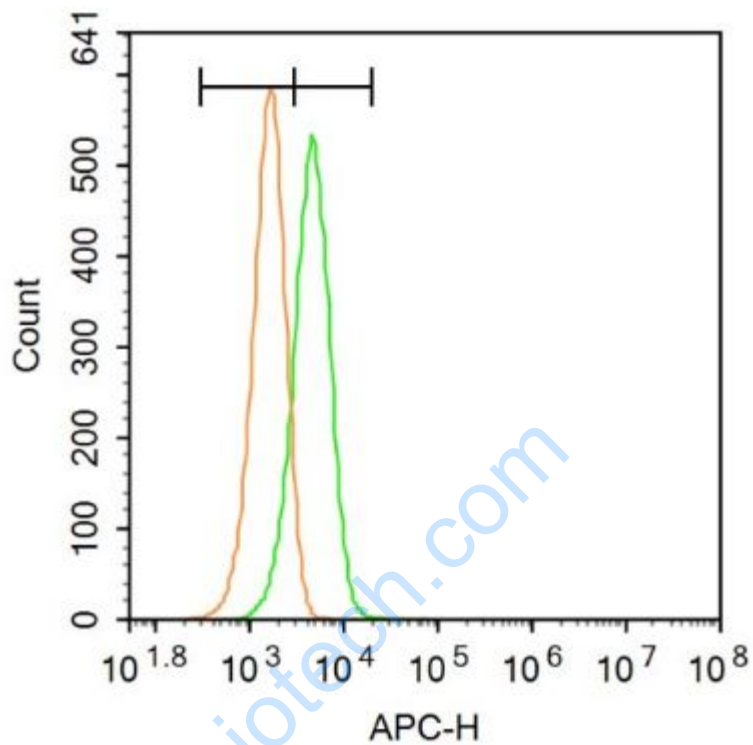
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 44 kD

Observed band size: 54 kD



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



Blank control: HeLa.

Primary Antibody (green line): Rabbit Anti-beta 3 Adrenergic Receptor antibody (SL1063R)

Dilution: $3\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody: Goat anti-rabbit IgG-AF647

Dilution: $3\mu\text{g} / \text{test}$.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room

	temperature. Acquisition of 20,000 events was performed.
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