

Datasheet for ABIN7042907

anti-ADRB3 antibody (2nd Extracellular Loop, Cys186)



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3 Images

Overview

Quantity:	50 µL
Target:	ADRB3
Binding Specificity:	2nd Extracellular Loop, AA 180-192, Cys186
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADRB3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: DAEAQESH*SNPRC, corresponding to amino acid residues 180-192 of mouse ADRB3 with replacement of cysteine 186 (C186) with serine (*S)
Isotype:	IgG
Characteristics:	Anti-beta3-Adrenergic Receptor (extracellular) Antibody is directed against an extracellular epitope of the mouse β 3-adrenoceptor. Anti- β 3-Adrenergic Receptor (extracellular) Antibody (ABIN7042907, ABIN7043912 and ABIN7043913)) can be used in western blot and immunohistochemical applications. It has been designed to recognize both splice variants of the β 3AR from mouse, rat and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

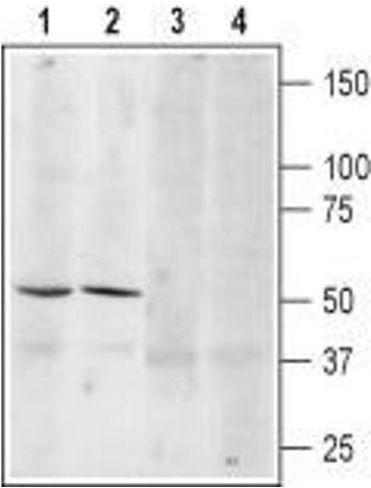
Target:	ADRB3
Alternative Name:	beta3-Adrenergic Receptor (ADRB3 Products)
Background:	Alternative names: beta3-Adrenergic Receptor, Beta-3 adrenoceptor, Beta-3 adrenoreceptor, ADRB3, B3AR
Gene ID:	11556
NCBI Accession:	NM_000025
UniProt:	P25962
Pathways:	cAMP Metabolic Process , Regulation of G-Protein Coupled Receptor Protein Signaling , Feeding Behaviour , Brown Fat Cell Differentiation

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

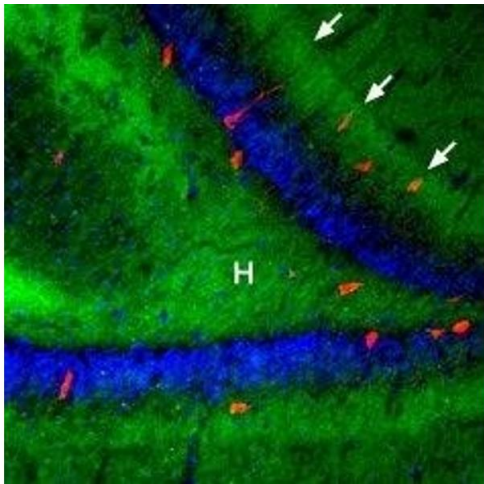
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.75 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT, 4 °C, -20 °C
Storage Comment:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).</p>



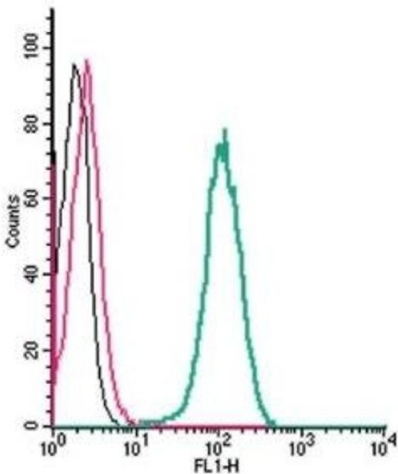
Western Blotting

Image 1. Western blot analysis of mouse (lanes 1 and 3) and rat (lanes 2 and 4) brain lysates: - 1,3. Anti- β 3-Adrenergic Receptor (extracellular) Antibody (ABIN7042907, ABIN7043912 and ABIN7043913), (1:200).2,4. Anti- β 3-Adrenergic Receptor (extracellular) Antibody, preincubated with β 3-Adrenergic Receptor (extracellular) Blocking Peptide (#BLP-AR017).



Immunohistochemistry

Image 2. Expression of β 3-Adrenoceptor in rat hippocampus - Immunohistochemical staining of rat hippocampal dentate gyrus using Anti- β 3-Adrenergic Receptor (extracellular) Antibody (ABIN7042907, ABIN7043912 and ABIN7043913), (1:100), (green). β 3-Adrenoceptor is strongly expressed in the hilus (H) and in the outer molecular layer (arrows). The distribution overlaps the entire layers, but is not restricted to nerve cells (stained red with mouse anti-Parvalbumin). DAPI is used as the counterstain (blue).



Flow Cytometry

Image 3. Cell surface detection of β 3-Adrenergic Receptor by indirect flow cytometry in live intact human THP-1 monocytic leukemia cells: (black line) Cells.(red line) Cells + goat-anti-rabbit-FITC. (green line) Cells + Anti- β 3-Adrenergic Receptor (extracellular) Antibody (ABIN7042907, ABIN7043912 and ABIN7043913), (2.5 μ g) + goat-anti-rabbit-FITC