Datasheet for ABIN7042902

anti-ADRB1 antibody (2nd Extracellular Loop)

Go to Product page

3 Images

Overview

Quantity:	25 µL
Target:	ADRB1
Binding Specificity:	2nd Extracellular Loop, AA 200-214
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)RAESDEARR(S)YNDP, corresponding to amino acid residues 200-214 of rat ADRB1
Isotype:	IgG
Characteristics:	Anti-β1-Adrenergic Receptor (extracellular) Antibody (ABIN7042902, ABIN7043924 and ABIN7043925)) is a highly specific antibody directed against an extracellular epitope the rat β1-adrenoceptor. The antibody can be used in western blot and immunohistochemistry applications. The antibody recognizes an extracellular epitope and is thus ideal for detecting the receptor in living cells. It has been designed to recognize β1AR from mouse, rat and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	ADRB1
Alternative Name:	beta1-Adrenergic Receptor (ADRB1 Products)
Background:	Alternative names: beta1-Adrenergic Receptor, Beta-1 adrenoceptor, Beta-1 adrenoreceptor, ADRB1, ADRB1R, B1AR
Gene ID:	24925
NCBI Accession:	NM_000684
UniProt:	P18090
Pathways:	cAMP Metabolic Process, Cellular Glucan Metabolic Process, Regulation of Muscle Cell Differentiation, Synaptic Membrane, Regulation of G-Protein Coupled Receptor Protein Signaling, G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma, Brown Fat Cell Differentiation

Application Details

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

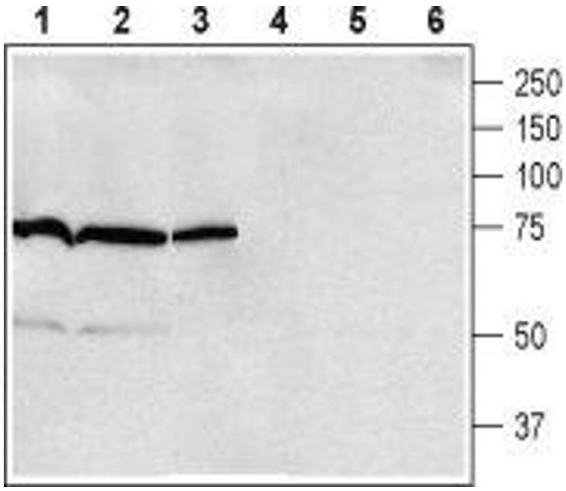
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.85 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:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. 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

Handling

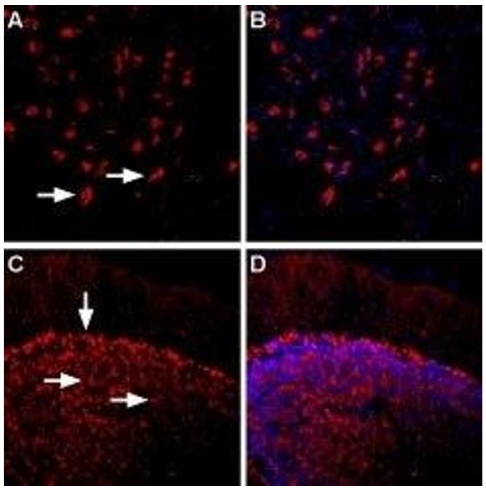
thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



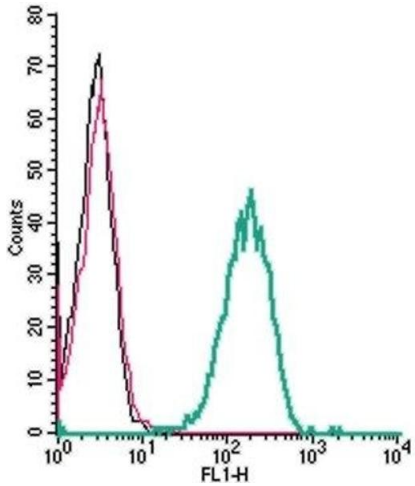
Western Blotting

Image 1. Western blot analysis of rat brain (lanes 1 and 4), mouse brain (lanes 2 and 5) and rat lung (lanes 3 and 6) membranes: - 1-3. Anti-β1-Adrenergic Receptor (extracellular) Antibody (ABIN7042902, ABIN7043924 and ABIN7043925), (1:200).4-6. Anti-β1-Adrenergic Receptor (extracellular) Antibody, preincubated with β1-Adrenergic Receptor (extracellular) Blocking Peptide (#BLP-AR023).



Immunohistochemistry

Image 2. Expression of β1-Adrenoceptor in rat and mouse brain - Immunohistochemical staining of rat dorsal raphe nucleus and mouse cerebellum using Anti-β1-Adrenergic Receptor (extracellular) Antibody (ABIN7042902, ABIN7043924 and ABIN7043925), (1:400). A. β1-Adrenoceptor staining (red) in rat dorsal raphe nucleus appears in neurons (horizontal arrows). C. β1-Adrenoceptor in mouse cerebellum staining (red) is detected in granule cells (horizontal arrows) and in the Purkinje cell layer (vertical arrow). B, D. Nuclear staining using DAPI as the counterstain (blue).



Flow Cytometry

Image 3. Cell surface detection of β1-adrenoceptor 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-β1-Adrenergic Receptor (extracellular) Antibody (ABIN7042902, ABIN7043924 and ABIN7043925), (2.5 µg) + goat-anti-rabbit-FITC.