Datasheet for ABIN7042908

anti-alpha 1 Adrenergic Receptor antibody (2nd Extracellular Loop, Cys176)

3 Images

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Overview

Quantity:	25 µL
Target:	alpha 1 Adrenergic Receptor (ADRA1A)
Binding Specificity:	2nd Extracellular Loop, AA 171-183, Cys176
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This alpha 1 Adrenergic Receptor antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: EDETI*SQINEEPG(C), corresponding to amino acid residues 171-183 of human alpha1A-adrenoceptor with replacement of cysteine 176 (C176) with serine (*S)
Isotype:	IgG
Characteristics:	Anti-alpha1A-Adrenergic Receptor (extracellular) Antibody is directed against an extracellular epitope of the human α1A-adrenergic receptor. Anti-α1A-Adrenergic Receptor (extracellular) Antibody (ABIN7042908, ABIN7043908 and ABIN7043909)) can be used in western blot and immunohistochemistry applications. It has been designed to recognize α1A-adrenoceptor from human, rat, and mouse samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

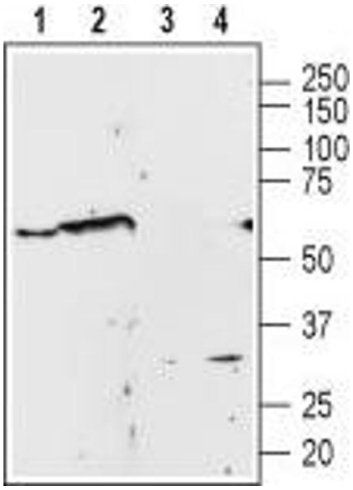
Target:	alpha 1 Adrenergic Receptor (ADRA1A)
Alternative Name:	alpha1A-Adrenergic Receptor (ADRA1A Products)
Background:	Alternative names: alpha1A-Adrenergic Receptor, Alpha-1A adrenoceptor, Alpha-1C adrenergic receptor, alpha1A-AR, ADRA1A
Gene ID:	148
NCBI Accession:	NM_033303
UniProt:	P35348
Pathways:	AMPK Signaling

Application Details

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

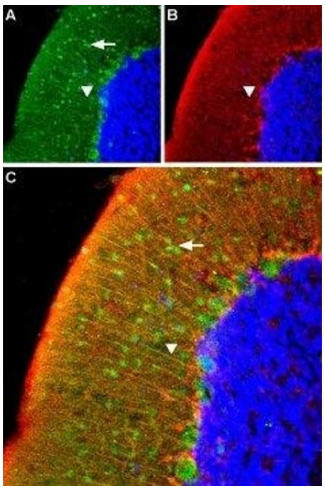
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.7 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 thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



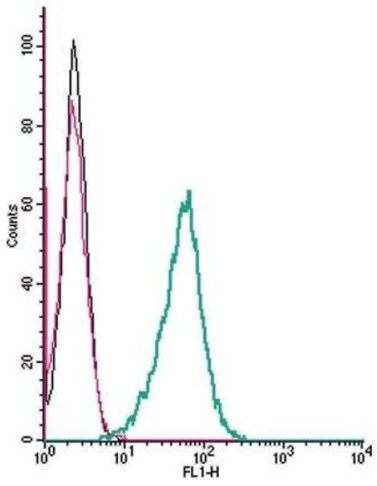
Western Blotting

Image 1. Western blot analysis of Human PC3 prostate carcinoma cell line lysate (lanes 1 and 3) and rat brain membrane (lanes 2 and 4): - 1,2. Anti-α1A-Adrenergic Receptor (extracellular) Antibody (ABIN7042908, ABIN7043908 and ABIN7043909), (1:200).3,4. Anti-α1A-Adrenergic Receptor (extracellular) Antibody, preincubated with α1A-Adrenergic Receptor (extracellular) Blocking Peptide (#BLP-AR015).



Immunohistochemistry

Image 2. Expression of α1A-Adrenergic receptor in rat cerebellum - Immunohistochemical staining of rat cerebellum using Anti-α1A-Adrenergic Receptor (extracellular) Antibody (ABIN7042908, ABIN7043908 and ABIN7043909), (1:100). A. α1A-adrenoceptor (green) appears in fibers of Bergmann glia (triangle points at an example). B. S100β (red), a marker of Bergmann glia, is stained in the same section. C. Merge of the images demonstrates expression of α1A-adrenoceptor in fibers of Bergmann glia. α1A-adrenoceptor is also expressed in cells in the molecular layer that are s100β negative (arrow points at an example). DAPI is used as the counterstain (blue).



Flow Cytometry

Image 3. Cell surface detection of α1A-Adrenergic receptor by indirect flow cytometry in live intact mouse J774 macrophage cells: (black line) Cells.(red line) Cells + goat-anti-rabbit-FITC.(green line) Cells + Anti-α1A-Adrenergic Receptor (extracellular) Antibody (ABIN7042908, ABIN7043908 and ABIN7043909), (2.5 µg) + goat-anti-rabbit-FITC.