

DATASHEET

Alpha-1A Adrenergic Receptor Rabbit Monoclonal Antibody(C1533)

CAT. NO. AMA01145

KEY FEATURES

Target	Alpha-1A Adrenergic Receptor	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Monoclonal
Applications	WB, IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Alpha-1 adrenergic receptors are G protein-coupled receptors for catecholamines that signal through the G(q) family of G proteins, including G(q) and G(11). Upon activation, they stimulate the phosphatidylinositol-calcium second messenger pathway, leading to calcium release from intracellular stores and activation of protein kinase C family of G proteins, including G(q) and G(11). Upon activation, they stimulate the phosphatidylinositol-calcium second messenger pathway, leading to calcium release from intracellular stores and activation of protein kinase C . ADRA1A binds the catecholamine ligands norepinephrine and epinephrine . Can also couple to G(14) protein . Nuclear ADRA1A forms heterooligomers with ADRA1B to regulate phenylephrine(PE)-stimulated ERK signaling in cardiac myocytes .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200
FC	1:10 - 1:50

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Recombinant rabbit monoclonal antibody to Alpha-1A Adrenergic Receptor
Specificity	Recognizes endogenous levels of Alpha-1A Adrenergic Receptor protein
Antibody Type	Primary antibody, Recombinant
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within human Alpha-1A Adrenergic Receptor. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 51, 47, 40, 35, 32 kD; Observed: 52, 40, 35 kD
Form/Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.
Alternative Names	ADRA1C; Alpha-1A adrenergic receptor; Alpha-1A adrenoreceptor; Alpha-1A adrenoceptor; Alpha-1C adrenergic receptor; Alpha-adrenergic receptor 1c
Gene Symbol	ADRA1A
Entrez Gene	148(Human); 11549(Mouse); 29412(Rat)
SwissProt	P35348(Human); P97718(Mouse); P43140(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

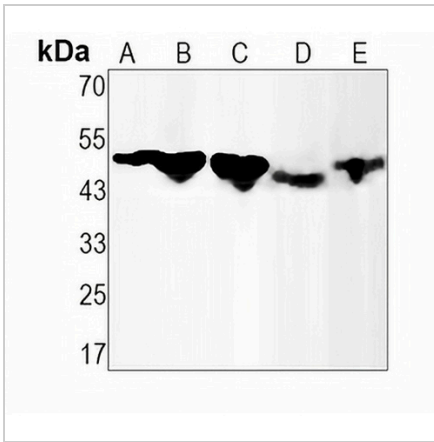
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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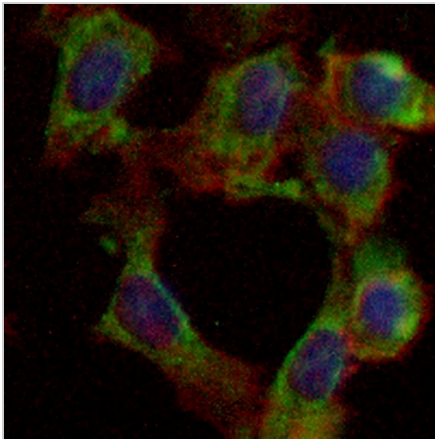
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Western blot analysis of Alpha-1A Adrenergic Receptor expression in Hela (A), H9C2 (B), H1792 (C), mouse heart (D), rat heart (E) whole cell lysates. (Predicted band size: 51, 47, 40, 35, 32 kD; Observed band size: 52, 40, 35 kD)



Immunofluorescent analysis of Alpha-1A Adrenergic Receptor staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 - conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.