


Product datasheet

Anti-alpha 1a Adrenergic Receptor/ADRA1A antibody [EPR9691(B)] ab137123

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [19 References](#) [4 Images](#)

Overview

Product name	Anti-alpha 1a Adrenergic Receptor/ADRA1A antibody [EPR9691(B)]
Description	Rabbit monoclonal [EPR9691(B)] to alpha 1a Adrenergic Receptor/ADRA1A
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide within Human alpha 1a Adrenergic Receptor/ADRA1A aa 200-300. The exact sequence is proprietary. Database link: P35348
Positive control	PC-3, HepG2, and Raji cell lysates, HepG2 cells
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR9691(B)

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab137123 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/100 - 1/1000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 52 kDa (predicted molecular weight: 60 kDa).
ICC/IF		1/250 - 1/500.

Target

Function

This alpha-adrenergic receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. Its effect is mediated by G(q) and G(11) proteins.

Tissue specificity

Expressed in heart, brain, liver and prostate, but not in kidney, lung, adrenal, aorta and pituitary. Within the prostate, expressed in the apex, base, periurethra and lateral lobe. Isoform 4 is the most abundant isoform expressed in the prostate with high levels also detected in liver and heart.

Sequence similarities

Belongs to the G-protein coupled receptor 1 family. Adrenergic receptor subfamily. ADRA1A sub-subfamily.

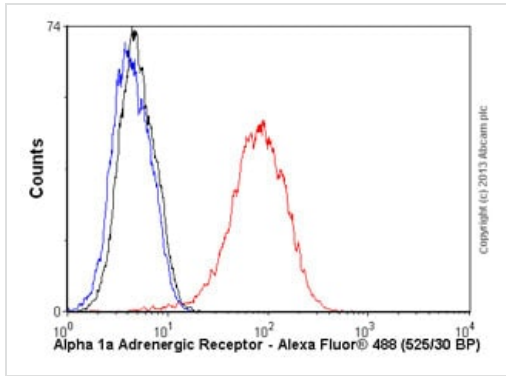
Post-translational modifications

Carboxyl-terminal Ser or Thr residues may be phosphorylated.

Cellular localization

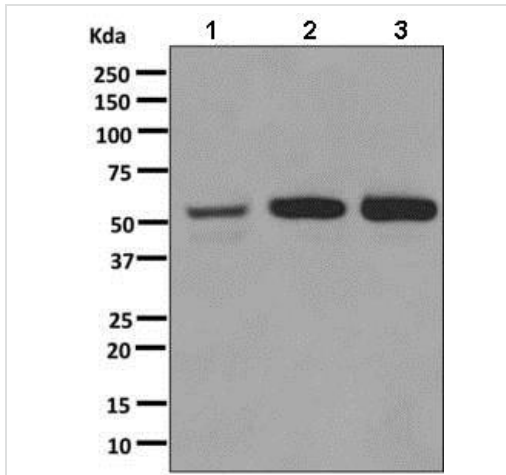
Cell membrane.

Images



Flow Cytometry (Intracellular) - Anti-alpha 1a Adrenergic Receptor/ADRA1A antibody [EPR9691(B)] (ab137123)

Overlay histogram showing HepG2 cells stained with ab137123 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab137123, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) ([ab150077](#)) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in HepG2 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Western blot - Anti-alpha 1a Adrenergic Receptor/ADRA1A antibody [EPR9691(B)] (ab137123)

All lanes : Anti-alpha 1a Adrenergic Receptor/ADRA1A antibody [EPR9691(B)] (ab137123) at 1/1000 dilution

Lane 1 : PC-3 cell lysate

Lane 2 : HepG2 cell lysate

Lane 3 : Raji cell lysate

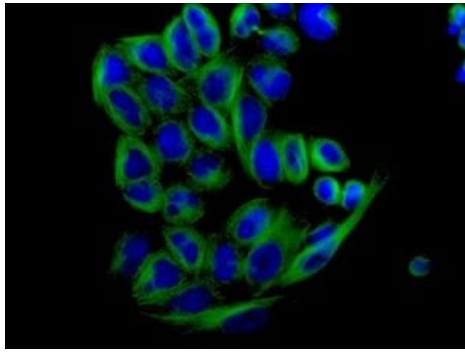
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 60 kDa

Observed band size: 52 kDa



Immunofluorescent analysis of HepG2 cells labelling alpha 1a Adrenergic Receptor/ADRA1A with ab137123 at 1/250 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-alpha 1a Adrenergic Receptor/ADRA1A antibody [EPR9691(B)] (ab137123)

Why choose a recombinant antibody?



Anti-alpha 1a Adrenergic Receptor/ADRA1A antibody [EPR9691(B)] (ab137123)

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