abcam

ab324267

Anti-beta 2 Adrenergic Receptor antibody [EPR26547-148]

Recombinant | RabMAb | KO Validated | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR26547-148
Purification technique	Affinity purification Protein A
Concentration	0.525 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/50
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information ADRB2

Function	G protein-coupled receptor for catecholamines that couples to both G(s) and G(i) proteins, activating bifurcated signaling pathways (PubMed:2831218, PubMed:7915137). ADRB2 binds epinephrine (Epi) with an approximately 30-fold greater affinity than norepinephrine (NE) (PubMed:2831218, PubMed:33093660, PubMed:7915137). In the heart, Epi- and NE-activated ADRB2 induces rapid and slow cardiomyocyte contraction rate, respectively (By similarity). Both NE and Epi promote coupling to G(s)/PKA pathway to regulate myocyte contraction rate (By similarity). Epi also promotes ADRB2 coupling to G(i) proteins to exert cardioprotective effects especially in the conditions of hypoxia and oxidative stress through the G(i)/PI3K/Akt signaling pathway (By similarity). ADRB2-G(s) signaling delivers proapoptotic signals in cardiomyocytes although G(i)-mediated survival effect appears to predominate (By similarity). ADRB2 also transduces signals independently of PKA to regulate cellular pH by modulating Na(+)/H(+) exchanger SLC9A3 function (PubMed:9560162).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

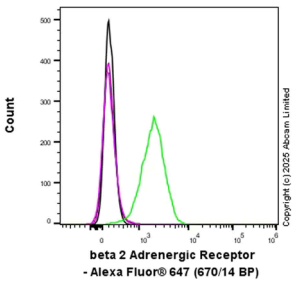
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

4 product images



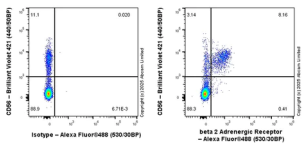
Flow Cytometry - Anti-beta 2 Adrenergic Receptor antibody [EPR26547-148] (ab324267)

Beta 2 Adrenergic Receptor Flow Cytometry staining using rabbit Anti-beta 2 Adrenergic Receptor antibody

Flow cytometric analysis of ADRB2 KO A431(OG030029) (ADRB2 knockout human epidermoid carcinoma cell) (Magenta) / A431(human epidermoid carcinoma epithelial cell) (Green) cells labelling beta 2 Adrenergic Receptor with ab324267 at 1/50 dilution (1ug) compared with a Rabbit monoclonal IgG (ab172730) (Black) and (Grey) isotype control.

Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.



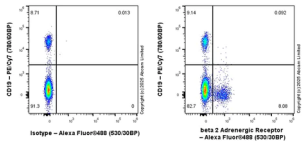
Flow Cytometry - Anti-beta 2 Adrenergic Receptor antibody [EPR26547-148] (ab324267)

Beta 2 Adrenergic Receptor Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-beta 2 Adrenergic Receptor antibody

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling beta 2 Adrenergic Receptor with ab324267 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.
Cells are co-stained with CD56 conjugated to Brilliant Violet 421.



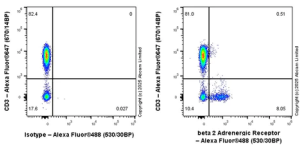
Flow Cytometry - Anti-beta 2 Adrenergic Receptor antibody [EPR26547-148] (ab324267)

Beta 2 Adrenergic Receptor Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-beta 2 Adrenergic Receptor antibody

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling beta 2 Adrenergic Receptor with ab324267 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.
Cells are co-stained with CD19 conjugated to PE/Cy7.



Flow Cytometry - Anti-beta 2 Adrenergic Receptor antibody [EPR26547-148] (ab324267)

Beta 2 Adrenergic Receptor Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-beta 2 Adrenergic Receptor antibody

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling beta 2 Adrenergic Receptor with ab324267 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.

Cells are co-stained with CD3 conjugated to Alexa Fluor®647.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.