abcam

ab324276

Anti-beta 2 Adrenergic Receptor antibody [EPR26547-148] - BSA and Azide free

Recombinant | RabMAb | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR26547-148
Purification technique	Affinity purification Protein A
Concentration	1.02 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-

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	Blue Ice
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	+4°C

Notes

ab324276 is the carrier-free version of ab324267.

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.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

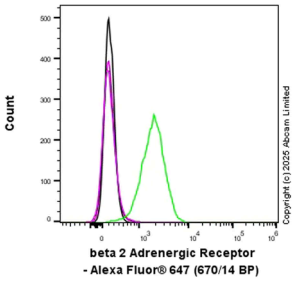
We do not recommend this combination. It is not covered by our product promise.

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] - BSA and Azide free (ab324276)

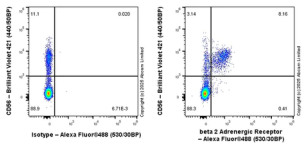
Beta 2 Adrenergic Receptor Flow Cytometry staining using rabbit Anti-beta 2 Adrenergic Receptor antibody

This data was developed using ab324267, the same antibody clone in a different buffer formulation.

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] - BSA and Azide free (ab324276)

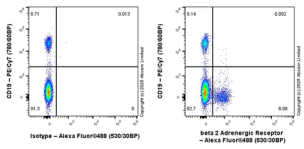
Beta 2 Adrenergic Receptor Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-beta 2 Adrenergic Receptor antibody

This data was developed using ab324267, the same antibody clone in a different buffer formulation.

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] - BSA and Azide free (ab324276)

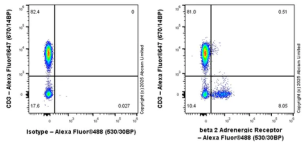
Beta 2 Adrenergic Receptor Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-beta 2 Adrenergic Receptor antibody

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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] - BSA and Azide free (ab324276)

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

This data was developed using ab324267, the same antibody clone in a different buffer formulation.

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'.