abcam

ab327906

Anti-beta 1 Adrenergic Receptor antibody [HL3678] - BSA and Azide free

Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	HL3678
Purification technique	Affinity purification Protein A
Specificity	This antibody is specific for human ADRB1 protein and does not cross react with human ADRA1A, ADRA1B, ADRA1D, ADRA2A, and ADRB2 protein.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Transfected cell lysate - Human
Dilution info	1/5000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

Species	Cat
Dilution info	1/1000
Notes	-

Flow Cyt

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Cat
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

Target data

See full target information ADRB1

Function	G protein-coupled receptor for catecholamines that couples to G(s) proteins to activate adenylate cyclase and cAMP-dependent pathway (PubMed:10212248, PubMed:12391161, PubMed:15358775). Binds epinephrine and norepinephrine with approximately equal affinity (PubMed:33093660). Mediates the activation of Ras via binding with cAMP-dependent RAPGEF2 (PubMed:12391161). As part of the sympathetic nervous system, plays a role in the physiologic regulation of cardiac functions such as stimulation of cardiomyocyte contraction (PubMed:11052857). Also delivers proapoptotic signals in cardiomyocytes (By similarity). Involved in the regulation of sleep/wake behaviors (PubMed:11854867, PubMed:31473062).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Storage information	Avoid freeze / thaw cycle

Notes

This antibody was raised against human beta 1 Adrenergic Receptor Intracellular domain.

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.

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.

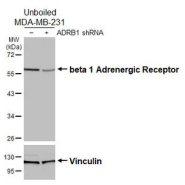
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

---

2 product images



Western blot - Anti-beta 1 Adrenergic Receptor antibody [HL3678] - BSA and Azide free (ab327906)

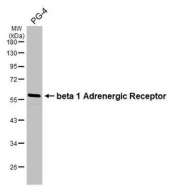
Beta 1 Adrenergic Receptor Western blot staining of Non-transfected (–) MDA-MB-231 whole cell extract using rabbit Anti-beta 1 Adrenergic Receptor antibody

Non-transfected (–) and transfected (+) unboiled MDA-MB-231 whole cell extracts were separated by 10% SDS-PAGE, and the membrane was blotted with ab327906 diluted at 1:1000. An HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.
All lanes:
Western blot - Anti-beta 1 Adrenergic Receptor antibody [HL3678] - BSA and Azide free (ab327906) at 1/1000 dilution

Lane 1:
Non-transfected (–) MDA-MB-231 whole cell extract at 30 µg

Lane 2:
ADRB1 shRNA transfected (+) MDA-MB-231 whole cell extract at 30 µg

Observed band size: 60 kDa



Western blot - Anti-beta 1 Adrenergic Receptor antibody [HL3678] - BSA and Azide free (ab327906)

Beta 1 Adrenergic Receptor Western blot staining of PG-4 whole cell extract using rabbit Anti-beta 1 Adrenergic Receptor antibody

PG-4 whole cell extract was separated by 10% SDS-PAGE, and the membrane was blotted with ab327906 diluted at 1:1000. An HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.
All lanes:
Western blot - Anti-beta 1 Adrenergic Receptor antibody [HL3678] - BSA and Azide free (ab327906) at 1/1000 dilution

All lanes:
PG-4 whole cell extract at 30 µg

Observed band size: 60 kDa

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