abcam

ab327568

Anti-5-HT1A receptor antibody [HL3657] - 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	HL3657
Purification technique	Affinity purification Protein A

Reactivity data

WB

Tested

Species	Human
Dilution info	1/500
Notes	-

Species	Transfected cell lysate - Human

Dilution info	1/5000
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Transfected cell line - Human
Dilution info	1/50
Notes	-

Expected

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

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

Target data

See full target information HTR1A

Function	G-protein coupled receptor for 5-hydroxytryptamine (serotonin) (PubMed:22957663, PubMed:3138543, PubMed:33762731, PubMed:37935376, PubMed:37935377, PubMed:8138923, PubMed:8393041). Also functions as a receptor for various drugs and psychoactive substances (PubMed:22957663, PubMed:3138543, PubMed:33762731, PubMed:38552625, PubMed:8138923,

PubMed:8393041). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (PubMed:22957663, PubMed:3138543, PubMed:33762731, PubMed:8138923, PubMed:8393041). HTR1A is coupled to G(i)/G(o) G alpha proteins and mediates inhibitory neurotransmission: signaling inhibits adenylate cyclase activity and activates a phosphatidylinositol-calcium second messenger system that regulates the release of Ca(2+) ions from intracellular stores (PubMed:33762731, PubMed:35610220). Beta-arrestin family members regulate signaling by mediating both receptor desensitization and resensitization processes (PubMed:18476671, PubMed:20363322, PubMed:20945968). Plays a role in the regulation of 5-hydroxytryptamine release and in the regulation of dopamine and 5-hydroxytryptamine metabolism (PubMed:18476671, PubMed:20363322, PubMed:20945968). Plays a role in the regulation of dopamine and 5-hydroxytryptamine levels in the brain, and thereby affects neural activity, mood and behavior (PubMed:18476671, PubMed:20363322, PubMed:20945968). Plays a role in the response to anxiogenic stimuli (PubMed:18476671, PubMed:20363322, PubMed:20945968).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	-20°C
Appropriate long-term storage conditions	-20°C

Notes

This antibody was raised against human 5-HT1A receptor intracellular domain.

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.

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

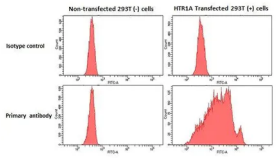
We do not recommend this combination. It is not covered by our product promise.

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.

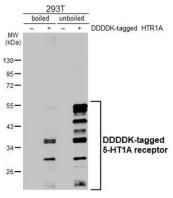
3 product images



Flow Cytometry - Anti-5-HT1A receptor antibody [HL3657] - BSA and Azide free (ab327568)

5-HT1A receptor Flow Cytometry staining using rabbit Anti-5-HT1A receptor antibody

ab327568 detects HTR1A protein by flow cytometry analysis.
Sample: Non-transfected and transfected 293T cells were fixed in 4% paraformaldehyde at 4°C for 15 min and washed with 0.1% saponin buffer.
The cells were following stained with ab327568 diluted at 1:50 or a Rabbit IgG isotype control control at 4°C for 1 hour.



Western blot - Anti-5-HT1A receptor antibody [HL3657] - BSA and Azide free (ab327568)

5-HT1A receptor Western blot staining using rabbit Anti-5-HT1A receptor antibody

Non-transfected (–) and transfected (+) boiled and unboiled 293T whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with ab327568 diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.
All lanes:

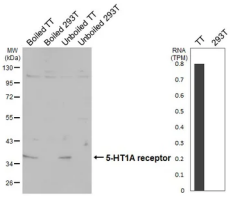
Western blot - Anti-5-HT1A receptor antibody [HL3657] - BSA and Azide free (ab327568) at 1/5000 dilution

Lane 1:
Non-transfected 293T whole cell extract (boiled) at 30 µg

Lane 2:
DDDDK-tagged HTR1A transfected 293T whole cell extract (boiled) at 30 µg

Lane 3:
Non-transfected 293T whole cell extract (unboiled) at 30 µg

Lane 4:
DDDDK-tagged HTR1A transfected 293T whole cell extract (unboiled) at 30 µg



Western blot - Anti-5-HT1A receptor antibody [HL3657] - BSA and Azide free (ab327568)

5-HT1A receptor Western blot staining using rabbit Anti-5-HT1A receptor antibody

Boiled and unboiled whole cell extract (50 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with ab327568 diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. Corresponding RNA expression data are based on Human Protein Atlas program.
All lanes:
Western blot - Anti-5-HT1A receptor antibody [HL3657] - BSA and Azide free (ab327568) at 1/500 dilution

Lane 1:
TT whole cell extract (boiled) at 50 µg

Lane 2:
293T whole cell extract (boiled) at 50 µg

Lane 3:
TT whole cell extract (unboiled) at 50 µg

Lane 4:
293T whole cell extract (unboiled) at 50 µg

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