

Product datasheet

Anti-5HT3A receptor antibody ab45314

1 References 2 Images

Overview

<b>Product name</b>	Anti-5HT3A receptor antibody
<b>Description</b>	Rabbit polyclonal to 5HT3A receptor
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human 5HT3A receptor aa 350-450 conjugated to keyhole limpet haemocyanin. Database link: <a href="#">P46098</a>
<b>Positive control</b>	This antibody gave a positive signal in the following human tissue lysates: Brain, Testis, Heart and Skeletal Muscle.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab45314** 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
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 40, 55 kDa (predicted molecular weight: 55 kDa).

Application	Abreviews	Notes
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

---

## Target

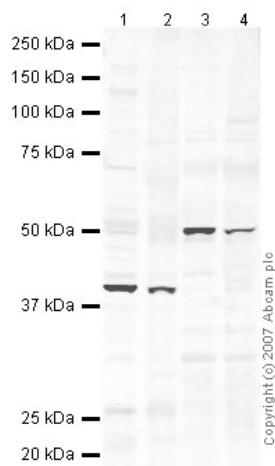
---

<b>Function</b>	This is one of the several different receptors for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor is a ligand-gated ion channel, which when activated causes fast, depolarizing responses in neurons. It is a cation-specific, but otherwise relatively nonselective, ion channel.
<b>Tissue specificity</b>	Expressed in cerebral cortex, amygdala, hippocampus, and testis. Detected in monocytes of the spleen and tonsil, in small and large intestine, uterus, prostate, ovary and placenta.
<b>Sequence similarities</b>	Belongs to the ligand-gated ion channel (TC 1.A.9) family. 5-hydroxytryptamine receptor (TC 1.A.9.2) subfamily. HTR3A sub-subfamily.
<b>Cellular localization</b>	Cell junction, synapse, postsynaptic cell membrane. Cell membrane.

---

## Images

---



Western blot - Anti-5HT3A receptor antibody  
(ab45314)

**All lanes :** Anti-5HT3A receptor antibody  
(ab45314) at 1 µg/ml

**Lane 1 :** Human brain tissue lysate - total  
protein (ab29466)

**Lane 2 :** Human testis tissue lysate - total  
protein (ab30257)

**Lane 3 :** Human heart tissue lysate - total  
protein (ab29431)

**Lane 4 :** Human skeletal muscle tissue lysate  
- total protein (ab29330)

Lysates/proteins at 10 µg per lane.

### Secondary

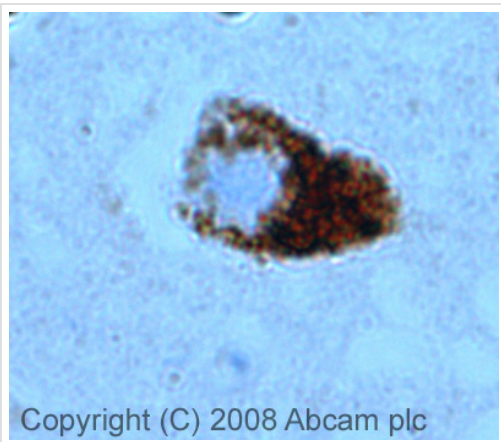
**All lanes :** IRDye 680 Conjugated Goat Anti-  
Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 55 kDa

**Observed band size:** 40,55 kDa

In heart and skeletal muscle, ab45314 detects a band at 55 kDa, corresponding to the predicted molecular weight of 5HT3A. We are unsure as to why a lower band of 40 kDa is seen in brain and testis. However, subsequent re-testing of this antibody on testis produced a single band at 55 kDa, suggesting that the smaller band originally observed may be due to lysate variation. Abcam welcomes customer feedback and would appreciate any comments regarding this product and the data presented above.



Copyright (C) 2008 Abcam plc

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-5HT3A receptor antibody (ab45314)

IHC image of 5HT3A staining in human hippocampus FFPE section, performed on a Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab45314, 1 µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

#### **Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

#### **Terms and conditions**

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors