

Product datasheet

Anti-5HT3A receptor antibody ab45314

1 References 2 Images

Overview

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

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	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.

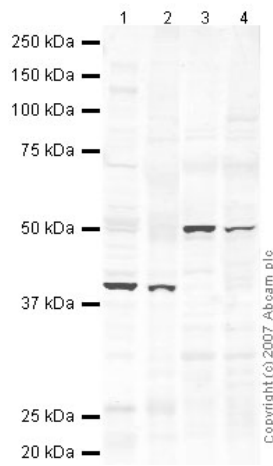
Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 40, 55 kDa (predicted molecular weight: 55 kDa).

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

Target

Function	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.
Tissue specificity	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.
Sequence similarities	Belongs to the ligand-gated ion channel (TC 1.A.9) family. 5-hydroxytryptamine receptor (TC 1.A.9.2) subfamily. HTR3A sub-subfamily.
Cellular localization	Cell junction, synapse, postsynaptic cell membrane. Cell membrane.

Images



Western blot - 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

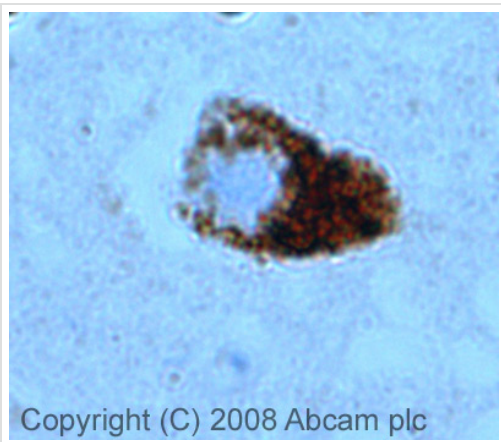
All lanes : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - 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.

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