

Anti-Serotonin antibody [YC5/45] α b6336

★★★★★ [3 Abreviews](#) [24 References](#) [3 Images](#)

Overview

Product name	Anti-Serotonin antibody [YC5/45]
Description	Rat monoclonal [YC5/45] to Serotonin
Host species	Rat
Tested applications	Suitable for: IHC-Fr, IHC-P
Species reactivity	Reacts with: Species independent
Immunogen	Chemical/ Small Molecule corresponding to Serotonin conjugated to bovine serum albumin.
Positive control	In IHC, this antibody gave a positive signal in a formalin-fixed, paraffin-embedded coronal section of Mouse Brain.
General notes	<p>Useful for the diagnosis of carcinoid tumours and the investigation of the effects of drugs on the neurological system.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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	pH: 7.40 Preservative: 0.05% Thimerosal (merthiolate)
Purity	Tissue culture supernatant
Primary antibody notes	Useful for the diagnosis of carcinoid tumours and the investigation of the effects of drugs on the neurological system.
Clonality	Monoclonal
Clone number	YC5/45

Isotype	IgG2c
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab6336 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

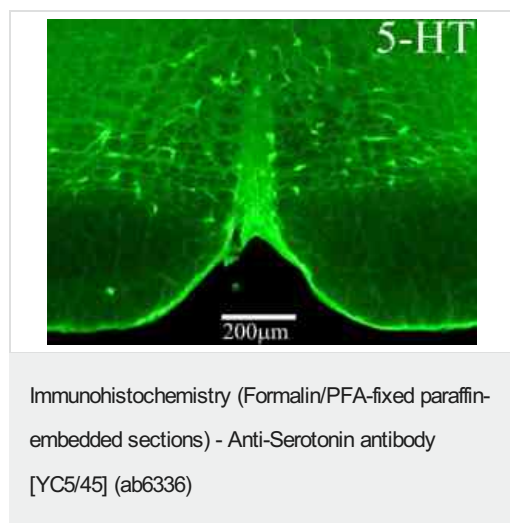
Application	Abreviews	Notes
IHC-Fr	★★★★★ (2)	Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.

Target

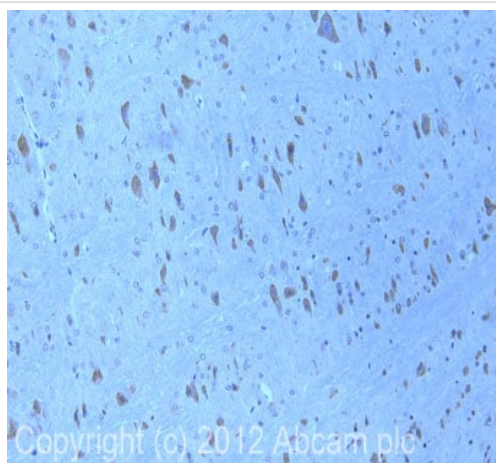
Relevance Serotonin (5-hydroxytryptamine, or 5-HT) is a monoamine neurotransmitter synthesised in serotonergic neurons in the central nervous system and enterochromaffin cells in the gastrointestinal tract. Serotonin plays an important part in the biochemistry of depression, migraine, bipolar disorder and anxiety. It is also believed to be influential on sexuality and appetite. 5-HT is generally thought not to be released from synaptic terminal buttons in the manner of classical neurotransmission but from serotonergic varicosities into the extra neuronal space. From here it is free to diffuse over a relatively large region of space (>20µm) and activate 5-HT receptors located on the dendrites, cell bodies and presynaptic terminals of adjacent neurons. Serotonergic action is terminated primarily via uptake of 5-HT from the synapse. This is through the specific monoamine transporter for 5-HT, 5-HT reuptake transporter, on the presynaptic neuron. The pharmacology of 5-HT is extremely complex, with its actions being mediated by a large and diverse range of 5-HT receptors.

Cellular localization Cytoplasmic and Secreted

Images



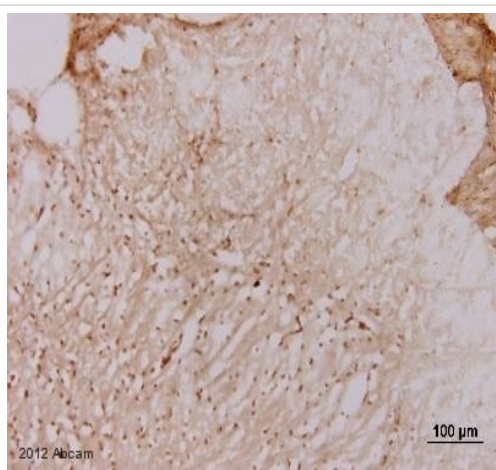
ab6336 in rat brain tissue fixed with 4% paraformaldehyde. The staining is appropriate, lighting up cell bodies, dendrites and terminals of known 5-HT containing neurones. These pictures are from the review provided by Jim Deuchars.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Serotonin antibody [YC5/45] (ab6336)

IHC image of Serotonin staining in mouse brain (coronal) formalin fixed paraffin embedded tissue section, performed on a Leica 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 ab6336, 5µg/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.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Frozen sections) - Anti-Serotonin antibody [YC5/45] (ab6336)

This image is courtesy of Ms. Szu-yu Liu by an abreview

Paraformaldehyde-fixed rabbit spinal cord tissue stained for Serotonin using ab6336 at 1/200 dilution in immunohistochemical analysis. Power Block™ Universal Blocking Reagent (Biogenex) was used as a blocking agent for 10 minute(s) at a concentration of 10% at 37°C. Biotin-SP-conjugated Goat Anti-Rat IgG was used as the secondary antibody at 1/500 dilution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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