Product datasheet

Anti-Serotonin antibody ab66047

Overview

Product name: Anti-Serotonin antibody
Description: Goat polyclonal to Serotonin
Host species: Goat
Tested applications: Suitable for: IHC-Fr, IHC-FoFr, ICC/IF
Species reactivity: Reacts with: Species independent
Immunogen: Serotonin whole molecule conjugated to BSA with paraformaldehyde.
Positive control: Rat hypothalamus, raphe nuclei and spinal cord.
General notes: If the product is lyophilized upon delivery, dilute with phosphate buffer or Tris buffer at dilutions no higher than 1/10, aliquot and freeze at -15°C or lower. Antibody can be stored for up to six months if handled as described above.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Constituent: Whole serum
Purity: Whole antiserum
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab66047 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>IHC-Fr</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>IHC-FoFr</td>
<td>1/400 - 1/800. When using Biotin/Streptavidin-HRP Technique dilution of 1/5000 - 1/10000.</td>
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</table>
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

** ICC/IF
Use at an assay dependent concentration. PubMed: 22761438

Target

**Relevance**

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**Cellular localization**

Cytoplasmic and Secreted

**Images**

**ab66407** staining of rat hypothalamus using 4+ biotin-streptavidinHRP staining at 1/4000.

**ab66047**, staining Serotonin in RBL-2H3 rat mast cells by Immunocytochemistry/ Immunofluorescence.

Cells were fixed in 4% paraformaldehyde and permeabilized with 0.2% Triton X-100 and blocked with 3% BSA for 60 min. Samples were incubated with primary antibody (1/500 dilution in TBS + 100 mm Tris-HCl + 150 mm NaCl). An AlexaFluor®647-conjugated anti-goat IgG was used as the secondary antibody (1/500).
ab66047 staining serotonin in SKNSH cells treated with fluoxetine hydrochloride (ab120077), by ICC/IF. Increase of serotonin expression correlates with increased concentration of fluoxetine hydrochloride, as described in literature.

The cells were incubated at 37°C for 24h in media containing different concentrations of ab120077 (fluoxetine hydrochloride) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab66047 (5 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 donkey anti-goat polyclonal antibody (ab96931) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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

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