

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human 5HT2C in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 496214
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human 5HT2C
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
Immunohistochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Flow Cytometry</p> <p>Detection of 5HT2C in A172 Human Cell Line by Flow Cytometry. A172 human glioblastoma cell line was stained with Mouse Anti-Human 5HT2C Monoclonal Antibody (Catalog # MAB5764, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG F(ab)₂ Secondary Antibody (Catalog # F0102B).</p>	<p>Immunohistochemistry</p> <p>5HT2C in Human Brain. 5HT2C was detected in immersion fixed paraffin-embedded sections of human brain (cortex) using Mouse Anti-Human 5HT2C Monoclonal Antibody (Catalog # MAB5764) at 3 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal cell bodies and processes. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

5HT2C is a 45 kDa 7TM receptor for serotonin and is neuronally expressed in the limbic system of the brain. The release of dopamine due to 5HT2C ligation regulates mood, appetite, and motivation. 5HT2C is an important pharmacologic target in the treatment of psychosis, schizophrenia, depression, anxiety, and migraine headaches. Multiple isoforms of 5HT2C can be generated by RNA editing. Human 5HT2C shares 89% aa sequence identity with mouse and rat 5HT2C.