

DESCRIPTION

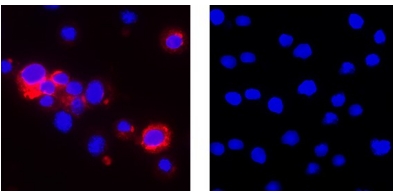
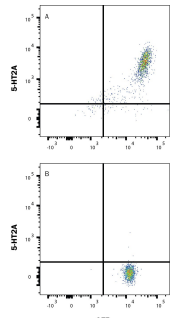
Species Reactivity	Human
Specificity	Detects human HTR2A in direct ELISA.
Source	Monoclonal Mouse IgG ₁ Clone # 1055220
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic peptide corresponding to the amino acids 1-75 in the N-term extracellular domain of the Serotonin Receptor 5-HT2A (HTR2A). Accession # P28223
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	0.5 µg/10 ⁶ cells	HEK293 cells transfected with Human HT2A and eGFP vs irrelevant
Immunocytochemistry	8-25 µg/mL	Immersion fixed NS0 mouse myeloma cell line transfected (positive) and NS0 mouse myeloma cell line wild type (negative) cells

DATA

<p>Immunocytochemistry</p>  <p>Transfected NS0 (Positive) cells Wild-type NS0 (Negative) cells</p>	<p>Detection of 5-HT2A in NS0 mouse myeloma cell line transfected (positive). 5-HT2A was detected in immersion fixed NS0 mouse myeloma cell line transfected (positive) cells and absent in NS0 mouse myeloma cell line wild type (negative) cells using Mouse Anti-Human 5-HT2A Monoclonal Antibody (Catalog # MAB112501) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>
	<p>Flow Cytometry</p> <p>Detection of 5-HT2A in HEK293 cells transfected with Human HT2A and eGFP vs irrelevant cells by Flow Cytometry. HEK293 cells transfected with Human HT2A and eGFP vs irrelevant were stained with eGFP and Mouse Anti-Human 5-HT2A Monoclonal Antibody (A, B) (Catalog # MAB112501) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). View our protocol for Staining Membrane-associated Proteins.</p>

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

Human serotonin receptor HTR2A, also known as 5-HT2A or HTR2, is a G-protein coupled receptor (GPCR) for 5-hydroxytryptamine (serotonin). The 5-HT2A receptor is mainly a cell surface receptor with several intracellular locations. Human -5-HT2A is the main excitatory receptor subtype among the GPCRs for serotonin but an inhibitory effect on the visual cortex and the orbitofrontal cortex has also been described. This receptor was first noted for its importance as a target of serotonergic psychedelic drugs such as LSD and psilocybin mushrooms.