

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human 5-HT4 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 631769
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human 5-HT4
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Flow Cytometry Titration recommended for optimal concentration with starting range of 0.1-1 µg/1 million cells. Sample used for this experiment was HEK293 human embryonic kidney cell line transfected with human 5-HT4 and eGFP

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage **Protect from light. Do not freeze.**

- 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

5-HT4 (5-hydroxytryptamine receptor 4), also known as HTR4 or 5HT4R, is an approximately 45 kDa multipass serotonin receptor that is expressed in the brain, gastrointestinal tract, bladder, vascular endothelial cells, atrium, kidney, and adrenal gland. It is involved in the regulation of learning, memory, anxiety, smooth muscle contraction, and adrenal corticosteroid secretion. Alternate splicing of human 5-HT4 generates multiple isoforms with either a 14 aa insertion in the second extracellular loop or a deletion or various substitutions in the C-terminal cytoplasmic region. Different isoforms show tissue specific expression patterns or increased activity in the absence of ligand. Human 5-HT4 shares 94% and 88% aa sequence identity with mouse and rat 5-HT4, respectively.

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