

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human 5-HT6 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2157A
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human 5-HT6 peptide Accession # P50406
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.

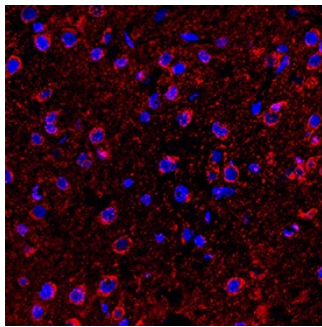
APPLICATIONS

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
Immunohistochemistry	1-25 µg/mL	See Below

DATA

Immunohistochemistry



5-HT6 in Rat Brain. 5-HT6 was detected in perfusion fixed frozen sections of rat brain (medulla) using Rabbit Anti-Human 5-HT6 Monoclonal Antibody (Catalog # MAB9496) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm of neuronal cell bodies. View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

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

5-HT6 is a seven transmembrane G-protein coupled 1 receptor for serotonin, with 93% homology between human and rat, and with highest expression in neurons of the striatum, cortex and hippocampus. Expression in cultured primary astrocytes from rats and glia has also been demonstrated for most brain regions. Expression in lymph node, spleen and testis has also been observed. High affinity for psychotropic drugs including tricyclic antidepressants and antipsychotics and high expression in the limbic regions suggest a role for 5-HT6 in emotional behaviors and mental illness. Lower expression of 5-HT6 in cortical layers I-V have been observed in Alzheimer's Disease brains.