

Polyclonal Antibody to 5-HT4 Receptor -Aff - Purified -

Alternate names: 5-HT-4, 5-HT4, 5-hydroxytryptamine receptor 4

Catalog No.: SP4048P

Quantity: 50 µg

Concentration: 1.0 mg/ml

Background: The 5-HT4 receptor, a member of the Serotonin Receptor subfamily, has been shown to affect the sensory and motor functions of the gut. Some of the most promising emerging therapies in Irritable Bowel Syndrome revolve around targeted pharmacotherapeutic modulation of serotonin receptors (ie, 5-HT3 and 5-HT4 subtypes). At least 9 isoforms (5-HT4A-5-HT4G, and 5-HT4n) have been described, which differ in the length and composition of their intracellular C termini after a common splicing site (L358). A ninth isoform (5-HT4H) results in the insertion of 14 amino acids into the second intracellular loop.
5-HT4 receptor expression has been documented primarily in the brain, and in colon, heart, and vessel. An EST has been isolated from a human cancerous nerve library.
Ligand: Serotonin.

Uniprot ID: [Q13639](#)

NCBI: [NP_000861.1](#)

GeneID: [3360](#)

Host: Rabbit

Immunogen: Synthetic peptide - KLH conjugated
Epitope: 3rd cytoplasmic domain of human.
Remarks: The immunizing peptide shows 93% identity (93% homology) with Mouse and Rat.

Format: **State:** Liquid purified Ig fraction.
Purification: Immunoaffinity Chromatography.
Buffer System: PBS containing 0.09% Sodium Azide as preservative.

Applications: Immunohistochemistry with Formalin Fixed Paraffin Embedded Tissues: 6 µg/ml.

Antigen retrieval:

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C for 20 min. Remove from heat and let stand at room temperature in buffer for 20 min.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: Reacts with 5-HT4 Receptor (family: GPCR, subfamily: Serotonin).

Species Reactivity: **Tested:** Human.
Expected from sequence similarity: Mouse and Rat.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Add. Information: This product was originally produced by MBL International.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20 to -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures:

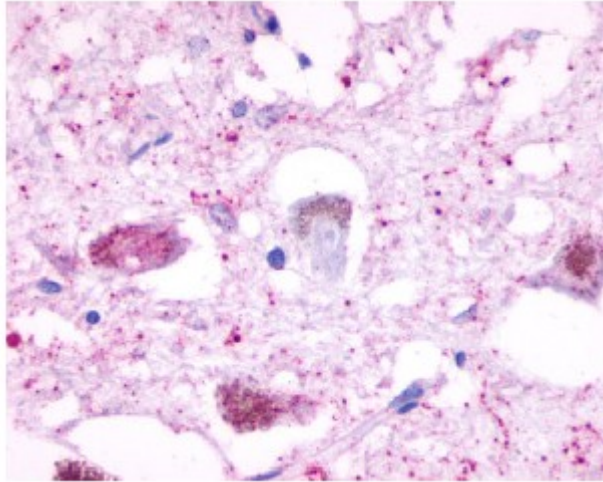


Figure 1. Immunohistochemical staining of brain (neurons and glia) using antibody SP4048P (Formalin-Fixed Paraffin Embedded).

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