

Mouse Anti-Serotonin [5HT-H209]: MC0498-5, MC0498RTU7

Intended Use: For Research Use Only

Description: Serotonin (5-hydroxytryptamine, or 5-HT) is a monoamine neurotransmitter synthesised in serotonergic neurons in the central nervous system and enterochromaffin cells in the gastrointestinal tract. Serotonin plays an important part in the biochemistry of depression, migraine, bipolar disorder and anxiety. It is also believed to be influential on sexuality and appetite. 5-HT is generally thought not to be released from synaptic terminal buttons in the manner of classical neurotransmission but from serotonergic varicosities into the extra neuronal space. From here it is free to diffuse over a relatively large region of space (>20µm) and activate 5-HT receptors located on the dendrites, cell bodies and presynaptic terminals of adjacent neurons. Serotonergic action is terminated primarily via uptake of 5-HT from the synapse. This is through the specific monoamine transporter for 5-HT, 5-HT reuptake transporter, on the presynaptic neuron. The pharmacology of 5-HT is extremely complex, with its actions being mediated by a large and diverse range of 5-HT receptors.

Specifications

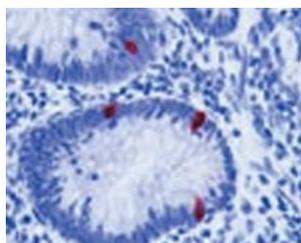
Clone: 5HT-H209
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human, mouse, rat
 Localization: Cytoplasm, secreted
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ICC
 Package:

Description	Catalog No.	Size
Serotonin Concentrated	MC0498-5	0.5 ml
Serotonin Prediluted	MC0498RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Brain
 Concentrated Dilution: 10-40
 Pretreatment: Citrate pH6.0 or EDTA pH 8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human appendix tissue stained with anti-Serotonin using AEC

References:

1. Immunohistochemical Analysis of IA-2 Family of Protein Tyrosine Phosphatases in Rat Gastrointestinal Endocrine Cells. Gomi H, et al. J Histochem Cytochem 61:156-68, 2013.
2. REG gene expression in inflamed and healthy colon mucosa explored by in situ hybridisation. van Beelen Granlund A et al. Cell Tissue Res 352:639-46, 2013.
3. Effect of sarpogrelate hydrochloride, a 5-hydroxytryptamine₂ receptor antagonist, on allograft arteriosclerosis after aortic transplantation in rats. Watada S, et al. Transpl Immunol 29:162-6, 2013.
4. Blunted epidermal L-tryptophan metabolism in vitiligo affects immune response and ROS scavenging by Fenton chemistry, part 1: epidermal H₂O₂/ONOO--mediated stress abrogates tryptophan hydroxylase and dopa decarboxylase activities, leading to low serotonin and melatonin levels. Schallreuter KU et al. FASEB J 26:2457-70, 2012.