

Product Datasheet

Serotonin Antibody (YC5/45) - BSA Free NB100-65037

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-65037

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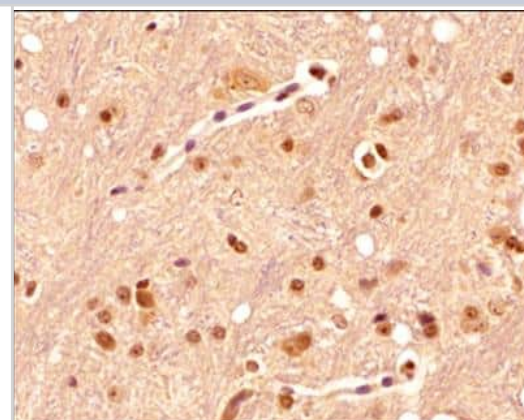
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	YC5/45
Preservative	0.02% Sodium Azide
Isotype	IgG2
Purity	Protein G purified
Buffer	PBS

Product Description	
Host	Rat
Species	All Species
Reactivity Notes	This antibody detects serotonin in multiple species including human, mouse, rat, and other vertebrate and invertebrate animals.
Specificity/Sensitivity	NB100-65037 recognizes serotonin and does not cross react with 5-hydroxyindolacetic acid, GABA, noradrenaline, 5-hydroxytryptophan, carnosine or melatonin. Serotonin (also known as 5-hydroxytryptamine or 5-HT) is a biochemical messenger and neurotransmitter synthesized from L-tryptophan. Serotonin has a range of functions, including regulation of gastric motility, and may be related to some psychiatric disorders including schizophrenia and depression. Serotonin is widely distributed in the central and peripheral nervous system, and also in some non-neural tissues such as platelets.
Immunogen	Serotonin conjugated to Bovine Serum Albumin.

Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunohistochemistry Whole-Mount
Recommended Dilutions	Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunohistochemistry-Paraffin 1:200 - 1:500, Immunohistochemistry-Frozen 1:200 - 1:500, Immunohistochemistry Whole-Mount reported in scientific literature (PMID 7781904)

Images

Immunohistochemistry-Paraffin: Serotonin Antibody (YC5/45) [NB100-65037] - Analysis of a FFPE tissue section of mouse brain using 1:200 dilution of Serotonin antibody (clone YC5/45). The signal was developed using HRP-DAB method and the nuclei were counterstained using hematoxylin. This antibody generated a specific strong staining in serotonin positive neurons.



Publications

Dunn GA The Role of Maternal Obesity and Consumption of a Western-Style Diet on Offspring Brain Development and Behavior via an Inflammatory Mechanism Thesis 2023-01-01 (IHC, Macaque)

Details:

Macaca fuscata, Japanese macaque

Osborn P A Role for Serotonin in the Developing Xenopus Tadpole Visual System Thesis 2023-01-01 (IHC, Xenopus)

Pyza E Meinertzhagen IA. Neurotransmitters regulate rhythmic size changes amongst cells in the fly's optic lobe. J Comp Physiol A. [PMID: 8568723]

Mukhopadhyay M Campos AR. The larval optic nerve is required for the development of an identified serotonergic arborization in Drosophila melanogaster. Dev Biol. [PMID: 7781904] (IHC-WhMt)

Consolazione A Milstein C Wright B Cuello AC. Immunocytochemical detection of serotonin with monoclonal antibodies. J Histochem Cytochem. [PMID: 7033368] (IF/IHC)

Milstein C Wright B Cuello AC. The discrepancy between the cross-reactivity of a monoclonal antibody to serotonin and its immunohistochemical specificity. Mol Immunol. [PMID: 6190077]

Wells CA Taylor SM Cuello AC. Argentaffin and argyrophil reactions and serotonin content of endocrine tumours. J Clin Pathol. [PMID: 2578484] (IHC-P)

Buc-Caron MH Launay JM Lamblin D Kellermann O. Serotonin uptake, storage, and synthesis in an immortalized committed cell line derived from mouse teratocarcinoma. Proc Natl Acad Sci U S A. [PMID: 2155426]

Solcia E Capella C Fiocca R et al. Gastric argyrophil carcinoidosis in patients with Zollinger-Ellison syndrome due to type 1 multiple endocrine neoplasia. A newly recognized association. Am J Surg Pathol. [PMID: 1970928] (IHC-P)

Zelenika D Adams E Humm S et al. The role of CD4+ T-cell subsets in determining transplantation rejection or tolerance. Immunol Rev. [PMID: 11722632]

Gil-Loyzaga P Bartolome V Vicente-Torres A Carricondo F. Serotonergic innervation of the organ of Corti. Acta Otolaryngol. [PMID: 11603756]

Portela-Gomes GM Lukinius A Grimelius L. Synaptic vesicle protein 2, A new neuroendocrine cell marker. Am J Pathol. [PMID: 11021834]





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Products Related to NB100-65037

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NBP1-75398	Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed)
NB100-65037UV	Serotonin Antibody (YC5/45) [DyLight 350]
KA1894	Serotonin ELISA Kit (Colorimetric)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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