

Datasheet: AHP1343

BATCH NUMBER 170774

Description:	RABBIT ANTI HUMAN 5-HT7 RECEPTOR (C-TERMINAL)
Specificity:	5-HT7 RECEPTOR (C-TERMINAL)
Other names:	HTR7
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			10ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
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Species Cross Reactivity	Based on sequence similarity, is expected to react with:Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
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Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to 5-HT7 receptor (CT) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Synthetic peptide corresponding to the C-terminal region of human 5-HT7 receptor, conjugated to Keyhole Limpet Hemocyanin (KLH).
External Database Links	<p>UniProt: P34969 Related reagents</p> <p>Entrez Gene: 3363 HTR7 Related reagents</p>
RRID	AB_906117
Specificity	<p>Rabbit anti Human 5-HT7 receptor antibody recognizes the C-terminal region of the serotonin (5-hydroxytryptamine, 5-HT) receptor 5-HT₇, which belongs to the G-protein coupled receptor superfamily. Serotonin is a neurotransmitter and vasoactive amine which is thought to play a role in various cognitive and behavioural functions including pain, appetite, mood and sleep.</p> <p>Signalling through 5-HT₇ has several effects, including regulation of the circadian rhythm and mediation of smooth-muscle relaxation in the vasculature and gastrointestinal tract. Signalling through 5-HT₇ has also been shown to contribute to early T-cell activation.</p> <p>5-HT₇ has been implicated in depression, autism, and other neuropsychiatric disorders.</p>
Histology Positive Control Tissue	Brain, cerebellum
References	<ol style="list-style-type: none"> 1. Kobe, F. <i>et al.</i> (2012) 5-HT7R/G12 Signaling Regulates Neuronal Morphology and Function in an Age-Dependent Manner. J Neurosci. 32: 2915-30. 2. Renner, U. <i>et al.</i> (2012) Heterodimerization of serotonin receptors 5-HT1A and 5-HT7 differentially regulates receptor signalling and trafficking. J Cell Sci. 125 (Pt 10): 2486-99.
Further Reading	1. León-Ponte, M. <i>et al.</i> (2007) Serotonin provides an accessory signal to enhance T-cell activation by signaling through the 5-HT7 receptor. Blood. 109 (8): 3139-46.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at

-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1343
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M382681:210513'

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