

Datasheet: AHP1343

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

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.

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 (NaN₃)

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

UniProt:

[P34969](#)

[Related reagents](#)

Entrez Gene:

[3363](#)

HTR7

[Related reagents](#)

RRID AB_906117

Specificity **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.

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.

5-HT₇ has been implicated in depression, autism, and other neuropsychiatric disorders.

Histology Positive Control Tissue Brain, cerebellum

References

1. Kobe, F. *et al.* (2012) 5-HT7R/G12 Signaling Regulates Neuronal Morphology and Function in an Age-Dependent Manner. [J Neurosci. 32: 2915-30.](#)
2. Renner, U. *et al.* (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. *et al.* (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 10040
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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 \(BUF025A\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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