

Datasheet: AHP1344

Description:	RABBIT ANTI HUMAN 5-HT7 RECEPTOR (N-TERMINAL)
Specificity:	5-HT7 RECEPTOR (N-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
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to 5-HT7 receptor (NT) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Synthetic peptide corresponding to the N-terminal domain of human 5-HT7 receptor, conjugated to Keyhole Limpet Hemocyanin (KLH).

External Database**Links****UniProt:**

[P34969](#) [Related reagents](#)

Entrez Gene:

[3363](#) HTR7 [Related reagents](#)

Specificity

Rabbit anti Human 5-HT₇ receptor antibody recognizes the N-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, cortex.

References

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: 3139-3146.](#)
 2. Soll, C. *et al.* (2012) Expression of serotonin receptors in human hepatocellular cancer. [Clin Cancer Res. 18: 5902-10.](#)
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Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)
[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)
[HISTAR DETECTION SYSTEM \(STAR3000C\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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