

For Research Use Only

# HTR7 Polyclonal antibody

Catalog Number: 13830-1-AP **5 Publications**



## Basic Information

|  |   |  |
|--|---|--|
| <b>Catalog Number:</b><br>13830-1-AP   | <b>GenBank Accession Number:</b><br>BC047526  | <b>Purification Method:</b><br>Antigen affinity purification       |
| <b>Size:</b><br>150ul , Concentration: 500 µg/ml by Nanodrop and 320 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>3363   | <b>Recommended Dilutions:</b><br>WB 1:200-1:1000<br>IHC 1:50-1:500 |
| <b>Source:</b><br>Rabbit   | <b>Full Name:</b><br>5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled) |  |
| <b>Isotype:</b><br>IgG   | <b>Calculated MW:</b><br>445 aa, 49 kDa   |  |
| <b>Immunogen Catalog Number:</b><br>AG4742   | <b>Observed MW:</b><br>50-55 kDa  |  |

## Applications

|  |  |
|--|--|
| <b>Tested Applications:</b><br>IHC, WB, ELISA  | <b>Positive Controls:</b><br>WB : mouse brain tissue, mouse spleen tissue<br>IHC : human brain tissue, |
| <b>Cited Applications:</b><br>FC, IHC, WB  |  |
| <b>Species Specificity:</b><br>human, mouse, rat   |  |
| <b>Cited Species:</b><br>human, mouse  |  |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |  |

## Background Information

Serotonin (5-hydroxytryptamine; 5-HT) acts as a neurotransmitter and neuromodulator in the central nervous system (CNS) (PMID:23100172). The behavioral effects of 5-HT are mediated by a large family of specific 5-HT receptors. HTR7 (5-hydroxytryptamine receptor 7) is a G protein-coupled receptor (GPCR), and many transcription factors can bind to its promoter, such as AP2, EGR-1, and MAZ (PMID:34164474). It is located in different brain regions, such as the hypothalamus, thalamus, cerebral cortex, and hippocampus (PMID:29637287). HTR7 is associated with circadian rhythm, anxiety, depression, schizophrenia, nociception, and memory (PMID:9154233).

## Notable Publications

| Author          | Pubmed ID | Journal                    | Application |
|-----------------|-----------|----------------------------|-------------|
| Flora Reverchon | 36289679  | Biomedicines               | FC          |
| Wen-Kai Bi      | 32171529  | Biochem Biophys Res Commun | WB          |
| Xiaohui Du      | 32210580  | Onco Targets Ther          | WB          |

## Storage

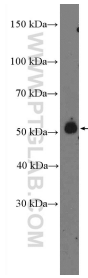
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

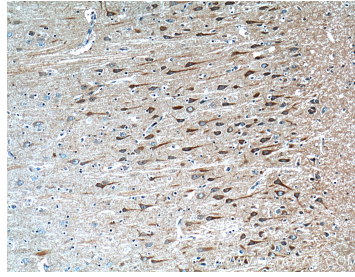
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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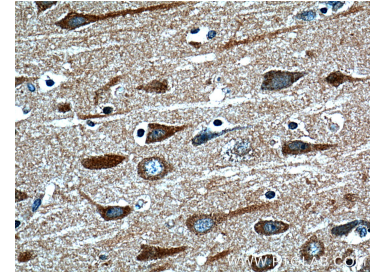
## Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 13830-1-AP (HTR7 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 13830-1-AP (HTR7 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 13830-1-AP (HTR7 Antibody) at dilution of 1:200 (under 40x lens).