

Polyclonal Anti-HTR2A Antibody

Catalog Number: PA1373

Description

Gene Name	5-hydroxytryptamine (serotonin) receptor 2A, G protein-coupled
Recommended Protein Name	5-hydroxytryptamine receptor 2A
Lot No.	0131112047327
Size	100µg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	Reacts with: human, mouse, rat
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human HTR2A (418-432aa AYKSSQLQMGQKKNS), different from the mouse sequence by one amino acid.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .

Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Hu, Ms, Rat	-	-
Immunohistochemistry (Paraffin-embedded Section)	0.5-1µg/ml	Ms, Rat	Hu	By Heat

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

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Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage: At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

Relevant detection systems

We provide a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IHC(P).

Background

The mammalian HTR2A (5-HT_{2A} receptor) is a subtype of the 5-HT₂ receptor that belongs to the serotonin receptor family and is a G protein-coupled receptor (GPCR). This is the main excitatory receptor subtype among the GPCRs for serotonin (5-HT), although 5-HT_{2A} may also have an inhibitory effect on certain areas such as the visual cortex and the orbit frontal cortex. This receptor was given importance first as the target of psychedelic drugs like LSD. Later it came back to prominence because it was also found to be mediating, at least partly, the action of many antipsychotic drugs, especially the atypical ones. 5-HT_{2A} also happens to be a necessary receptor for the spread of the human polyoma virus called JC virus. Sparkes et al. (1991) concluded that the gene is located on 13q14-q21 in man and on chromosome 14 in the mouse.


Reference

1. Cook EH, Fletcher KE, Wainwright M, Marks N, Yan SY, Leventhal BL (August 1994). "Primary structure of the human platelet serotonin 5-HT₂ receptor: identity with frontal cortex serotonin 5-HT_{2A} receptor". J. Neurochem. 63 (2): 465–9.
2. Elphick GF, Querbes W, Jordan JA, Gee GV, Eash S, Manley K, Dugan A, Stanifer M, Bhatnagar A, Kroeze WK, Roth BL, Atwood WJ (2004). "The human polyomavirus, JCV, uses serotonin receptors to infect cells". Science 306 (5700): 1380–3.

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.
Product Information Sheet

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