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Date: 10/29/2010

Anti-5-Hydroxytryptamine (Serotonin) Receptor 2B, Rabbit-Polyclonal Antibody

Catalog No. GB-30110 **Quantity:** 100μg **Applications:** ELISA
Antigen species: Human **Reactivity:** Human
Host species: Rabbit **Form:** Peptide affinity purified antibody

Target description

Multiple receptor subtypes of serotonin neurotransmitters with multiple physiologic function shave been recognized. Serotonin receptor 2B (5-hydroxytryptamine 2B receptor, 5-HT-2B) mediate many of the central and peripheral physiologic functions of serotonin. Cardiovascular effects include contraction of blood vessels and shape changes in platelets; central nervous system effects include neuronal sensitization to tactile stimuli and mediation of hallucinogenic effects of phenylisopropylamine hallucinogens.

Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide containing amino acids on the predicted extracellular domain of human serotonin receptor 2B.

Application

The antibody titer is more than 1000K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/10,000 dilution for ELISA, 1/2,000 dilution for Western blot analysis (WB) of recombinant protein, 1/800 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry(IHC) staining on frozen cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

Related Products

1. Anti-guanine nucleotide binding protein (G protein), q polypeptide (GNAQ), pAb (GB-30070)
2. Anti-luteinizing hormone/ choriogonadotropin receptor (LHCGR), pAb (GB-30071)
3. Anti-adrenergic, beta-1-, receptor (ADRB1) pAb (GB-30072)
4. Anti-adrenergic, beta-2-, receptor, surface (ADRB2) pAb (GB-30073)
5. Anti-angiotensin II receptor, type 1 (AGTR1) pAb (GB-30074).

Ab dilution	Pre-bleed	Purified-Ab
1:1,000	0.106	1.705
1:10,000	0.087	1.507
1:100,000	0.078	0.869
1:1000,000	0.079	0.233
1:10,000,000	0.080	0.099
Titer		**4,656K**

ELISA Protocol

Antigen is coated on EIA strips at 1μg per well. Add200μl of blocking buffer and then wash wells with PBST buffer. Antiserum or peptide specific purified antibodyGB-30110 is diluted in series as 10^3~10^7folds and added in separate wells. Incubate antibody for 1hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugated. Wash the plates and add substrate to develop color for 5 min. Read absorbance (ABS) at 650nm. Amount of color is directly proportional to the amount of antibodies. Antibody titer is defined as maximal dilution with >0.1 of ABS of antiserum minus pre-bleed serum.

Storage

It is supplied as peptide affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

1. Lauder, J.M., Wilkie, M.B., Wu, C., and Singh, S., 2000. Expression of 5-HT(2A), 5-HT(2B) and 5-HT(2C) receptors in the mouse embryo. *Int J Dev Neurosci.* Nov 18 (7):653-62.
2. Fiorica-Howells, E., Maroteaux, L., Gershon, M.D., 2000. Serotonin and the 5-HT(2B) receptor in the development of enteric neurons. *J Neurosci.* Jan 1; 20(1):294-305.
3. Choi, D.S., Maroteaux, L., 1996. Immunohistochemical localisation of the serotonin 5-HT2B receptor in mouse gut, cardiovascular system, and brain. *FEBS Lett.* Aug 5; 391(1-2):4551.