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Product datasheet for TA336340

5HT7 Receptor (HTR7) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, ICC/IF, Simple Western, WB
Recommended Dilution:	Western Blot: 1-2 ug/ml, Immunocytochemistry/ Immunofluorescence: 1:10-1:2000, Simple Western, Flow Cytometry
Reactivity:	Human, Mouse, Rat, Canine
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	This antibody was developed by immunizing rabbits with a mixture of synthetic peptides corresponding to amino acids 13-28 of the rat 5-HT7R (AAA42134.1).
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	54 kDa
Gene Name:	5-hydroxytryptamine receptor 7
Database Link:	NP_000863 Entrez Gene 15566 MouseEntrez Gene 65032 RatEntrez Gene 3363 Human P34969

View online »

Background: Receptors for serotonin (5-hydroxytryptamine, 5-HT) are classified into seven major classes (5-HTR1-7), based on structural, functional and pharmacological criteria (Hoyer et al, 1994). The 5-HT7 receptor (5-HT7R) is a seven-transmembrane-domain G-protein-coupled receptor that has important roles in regulating diverse biological process in the central and peripheral nervous systems (reviewed in Hedlund and Sutcliffe, 2004). Receptors for serotonin (5-hydroxytryptamine, 5-HT) are classified into seven major classes (5-HT1-7), based on structural, functional and pharmacological criteria (Hoyer et al, 1994). Sequence alignment shows a high degree of interspecies 5-HT7R homology (>90%), and a low homology with other 5-HTRs.

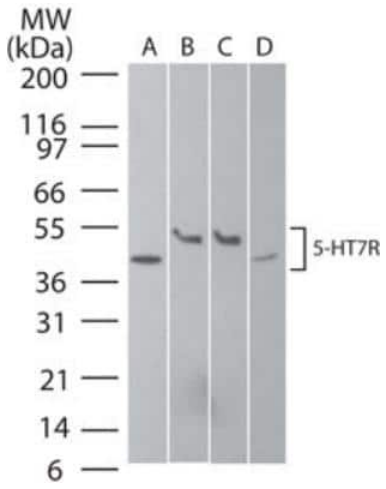
Synonyms: 5-HT7

Note: In human brain, a 50 kDa band is observed. Both 45 kDa and 50 kDa bands have been observed in various human glioblastoma cell lines and in the human microglial MC-3 cell lines. Bands in the 45-50 kDa range correspond to the predicted molecular weight for the 5HT7 receptor. The 5HT7 receptor also has putative sites for N-linked glycosylation and phosphorylation which may lead to variations in observed molecular weights. Use in Immunocytochemistry/Immunoflourescence was reported in the literature (PMID: 17940054)

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

Product images:



Western Blot: 5-HT7 Antibody TA336340 - Analysis of 5-HT7R in A) human brain, B) mouse brain, C) rat brain, and D) human SK-N-SH neuroblastoma cell lysate using this antibody.