Datasheet for ABIN617922

anti-HTR7 antibody (AA 8-23)

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Overview

Quantity:	0.1 mL
Target:	HTR7
Binding Specificity:	AA 8-23
Reactivity:	Human, Mouse, Rat, Pig, Cat, Grasshopper, Rabbit, Shrimp
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HTR7 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunoelectron Microscopy (IEM)

Product Details

Immunogen:	Rat 5-HT7 receptor (8-23)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Characteristics:	The 5-HT7 Receptor Antibody was raised against synthetic peptide sequence corresponding to amino acids 8-23 of the rat 5-HT7 receptor coupled to carrier protein with glutaraldehyde. The 5-HT7 receptor antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates strongly positive labeling of rat cortex and hippocampus using indirect immunofluorescent and biotin/avidin-HRP techniques. Recommended primary dilutions are 1/100 - 1/300 in PBS - biotin/avidin-HRP Technique. Note: use of Triton X-100 or other detergents is not recommended. The antibody was characterized

Product Details

	by immunohistochemistry. Immunohistochemical staining of rat brain correlates well with Northern blot analysis, in situ hybridization and receptor autoradiography studies. Immunolabeling is completely abolished by preadsorption with synthetic rat 5-HT7 receptor (8-23). BlastP database sequence homology searches indicate that the amino acid sequence is unique to rat 5-HT7A, 5-HT7B and 5-HT7C. There is also significant sequence overlap with the mouse and human forms.
Purification:	Affinity Purified

Target Details

Target:	HTR7
Alternative Name:	Serotonin Receptor 7 (HTR7) (HTR7 Products)
Background:	Other Names: 5-hydroxytryptamine receptor 7,5-HT-X,GPRFO,5Ht7,5-hydroxytryptamine (serotonin) receptor 7
Gene ID:	65032
Pathways:	JAK-STAT Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Contains ≤ 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	After reconstitution, use immediately or refrigerate at 2 - 8 °C up to 2 days. For long-term storage aliquot antibody and freeze at -15 °C or lower. Avoid repeated freeze/thaw cycles.

Publications

Product cited in:	Korlatowicz, Pabian, Solich, Kolasa, Latocha, Dziedzicka-Wasylewska, Faron-Górecka: "

Publications

Habenula as a Possible Target for Treatment-Resistant Depression Phenotype in Wistar Kyoto Rats." in: **Molecular neurobiology**, Vol. 60, Issue 2, pp. 643-654, (2023) (PubMed).

Maekawa, Komori, Kajikuri, Itoh: "Characteristics of the actions by which 5-hydroxytryptamine affects electrical and mechanical activities in rabbit jugular vein graft." in: **British journal of pharmacology**, Vol. 166, Issue 4, pp. 1419-32, (2012) (PubMed).

Khalmuratova, Hah, Ahn, Jeon, Kim, Balaban: "Immunohistochemical and biomolecular identification of 5-HT receptor in rat vestibular nuclei." in: **Journal of vestibular research : equilibrium & orientation**, Vol. 20, Issue 6, pp. 401-6, (2011) (PubMed).

Itoh, Kajikuri: "Characteristics of the actions by which 5-HT affects electrical and mechanical activities in rabbit jugular vein." in: **British journal of pharmacology**, Vol. 164, Issue 3, pp. 979-91, (2011) (PubMed).

Brenchat, Nadal, Romero, Ovalle, Muro, Sánchez-Arroyos, Portillo-Salido, Pujol, Montero, Codony, Burgueño, Zamanillo, Hamon, Maldonado, Vela: "Pharmacological activation of 5-HT7 receptors reduces nerve injury-induced mechanical and thermal hypersensitivity." in: **Pain**, Vol. 149, Issue 3, pp. 483-94, (2010) (PubMed).

There are more publications referencing this product on: Product page

Images

Immunohistochemistry

Image 1. IHC image of neurons in rat cortex.