Datasheet for ABIN7599428

anti-DRD5 antibody (AA 1-477)

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Overview

Quantity:	100 µg
Target:	DRD5
Binding Specificity:	AA 1-477
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DRD5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-DRD5 Antibody Picoband®
Immunogen:	E.coli-derived human DRD5 recombinant protein (Position: M1-H477). Human DRD5 shares 82.3% and 82.4% amino acid (aa) sequence identity with mouse and rat DRD5, respectively.
Characteristics:	Anti-DRD5 Antibody Picoband® (ABIN7599428). Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	DRD5
Alternative Name:	DRD5 (DRD5 Products)
Background:	D(1B) dopamine receptor(DRD5), also called DRD1B or DRD1L2 is a protein that in humans is encoded by the DRD5 gene. This gene is mapped to 4p16.1. This gene encodes the D5 subtype of the dopamine receptor. The D5 subtype is a G-protein coupled receptor which stimulates adenylyl cyclase. This receptor is expressed in neurons in the limbic regions of the brain. It has a 10-fold higher affinity for dopamine than the D1 subtype. Pseudogenes related to this gene reside on chromosomes 1 and 2. Compared with DRD1, DRD5 displayed a higher affinity for dopamine and was able to stimulate a biphasic rather than a monophasic intracellular accumulation of cAMP.
Molecular Weight:	58 kDa
Gene ID:	1816
UniProt:	P21918
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones, cAMP Metabolic Process, Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, -
	1. Li, H., Armando, I., Yu, P., Escano, C., Mueller, S. C., Asico, L., Pascua, A., Lu, Q., Wang, X., Villar, V. A. M., Jones, J. E., Wang, Z., and 9 others. Dopamine 5 receptor mediates Ang II type 1 receptor degradation via a ubiquitin-proteasome pathway in mice and human cells. J. Clin. Invest. 118: 2180-2189, 2008. Note: Erratum: J. Clin. Invest. 118: 2986 only, 2008. 2. Lowe, N., Kirley, A., Hawi, Z., Sham, P., Wickham, H., Kratochvil, C. J., Smith, S. D., Lee, S. Y., Levy, F., Kent, L., Middle, F., Rohde, L. A., and 20 others. Joint analysis of the DRD5 marker concludes association with attention-deficit/hyperactivity disorder confined to the predominantly inattentive and combined subtypes. Am. J. Hum. Genet. 74: 348-356, 2004. 3. Misbahuddin, A., Placzek, M. R., Chaudhuri, K. R., Wood, N. W., Bhatia, K. P., Warner, T. T. A polymorphism in the dopamine receptor DRD5 is associated with blepharospasm. Neurology 58: 124-126, 2002.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.