

Datasheet for ABIN3042836
anti-DRD5 antibody (C-Term)



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1 Image

Overview

Quantity:	100 µg
Target:	DRD5
Binding Specificity:	AA 388-407, C-Term
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DRD5 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Dopamine Receptor D5/DRD5 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Dopamine Receptor D5, different from the related rat sequence by two amino acids, and from the related human sequence by three amino acids.
Sequence:	LISYNQDTV F HREIAAAYVH
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Dopamine Receptor D5/DRD5 Antibody (ABIN3042836). Tested in WB applications. This antibody reacts with 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,

Product Details

ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: DRD5

Alternative Name: DRD5 ([DRD5 Products](#))

Background: Synonyms: D (1B) dopamine receptor,D (5) dopamine receptor,Dopamine D5 receptor,Drd5, Tissue Specificity: Brain, liver, placenta, lymphocytes and erythrocytes.

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.

Sequence Similarities: Belongs to the class I-like SAM-binding methyltransferase superfamily. Cation-dependent O- methyltransferase family.

Molecular Weight: 53 kDa

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, 0.1-0.5 µg/mL, Mouse, Rat

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

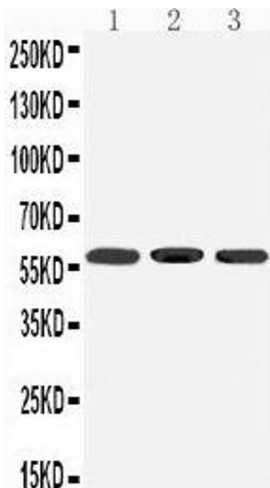
Application Details

	dopamine receptor DRD5 is associated with blepharospasm. Neurology 58: 124-126, 2002.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store 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 freeze-thaw cycles.
Expiry Date:	12 months

Images



Western Blotting

Image 1.