Datasheet for ABIN7043111

anti-DRD5 antibody (2nd Extracellular Loop)

4 Images

Go to Product page

Overview

Quantity:	25 µL
Target:	DRD5
Binding Specificity:	2nd Extracellular Loop, AA 199-211
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DRD5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: EEGWELEGRTENC, corresponding to amino acid residues 199-211 of rat DRD5
Isotype:	IgG
Cross-Reactivity (Details):	Unlikely to recognize human samples.
Characteristics:	Anti-D5 Dopamine Receptor (extracellular) Antibody is directed against an epitope located at the 2nd extracellular loop of the rat D5 dopamine receptor. Anti-D5 Dopamine Receptor (extracellular) Antibody (ABIN7043111, ABIN7044234 and ABIN7044235)) can be used in western blot analysis and immunohistochemical applications, and recognizes DRD5 from rat and mouse samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

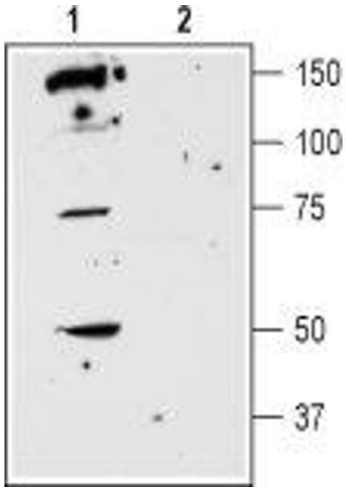
Target:	DRD5
Alternative Name:	D5 Dopamine Receptor (DRD5 Products)
Background:	Alternative names: D5 Dopamine Receptor, DRD5, D(1B) dopamine receptor
Gene ID:	25195
NCBI Accession:	NM_000798
UniProt:	P25115
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones, cAMP Metabolic Process, Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

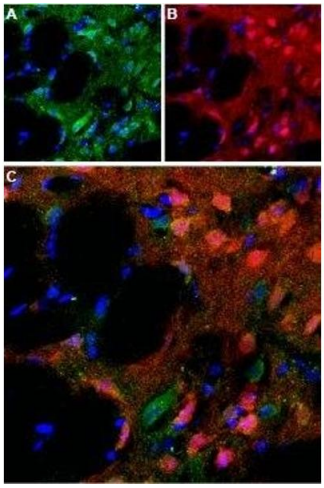
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % 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:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



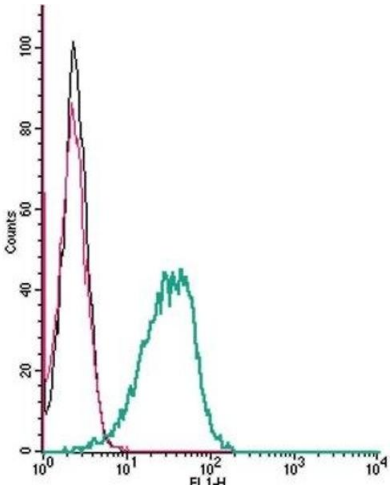
Western Blotting

Image 1. Western blot analysis of rat striatum membranes: - 1. Anti-D5 Dopamine Receptor (extracellular) Antibody (ABIN7043111, ABIN7044234 and ABIN7044235), (1:200).2. Anti-D5 Dopamine Receptor (extracellular) Antibody, preincubated with D5 Dopamine Receptor (extracellular) Blocking Peptide (#BLP-DR005).



Immunohistochemistry

Image 2. Expression of D5 dopamine receptor in rat striatum - Immunohistochemical staining of perfusion-fixed rat brain frozen using Anti-D5 Dopamine Receptor (extracellular) Antibody (ABIN7043111, ABIN7044234 and ABIN7044235), (1:100). A. DRD5 (green) appears in a subset of striatal neurons and in the striatal matrix. B. Staining of the same section with calbindin D28k (red), a marker of interneurons. C. Merging the two images demonstrates that DRD5 partially overlaps with the population of calbindin containing striatal interneurons. DAPI is used as the counterstain (blue).



Flow Cytometry

Image 3. Cell surface detection of D5 dopamine receptor by indirect flow cytometry in live intact mouse J774 macrophage cells: (black line) Cells.(red line) Cells + goat-anti-rabbit-FITC.(green line) Cells + Anti-D5 Dopamine Receptor (extracellular) Antibody (ABIN7043111, ABIN7044234 and ABIN7044235), (2.5 µg) + goat-anti-rabbit-FITC.

Please check the product details page for more images. Overall 4 images are available for ABIN7043111.