Datasheet for ABIN1882235

anti-DRD4 antibody (AA 365-391)

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Overview

Quantity:	400 µL
Target:	DRD4
Binding Specificity:	AA 365-391
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DRD4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This DRD4 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 365-391 amino acids from the Central region of human DRD4.
Clone:	625CT1-5-4
Isotype:	IgG1
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	DRD4
Alternative Name:	DRD4 (DRD4 Products)
Background:	This gene encodes the D4 subtype of the dopamine receptor. The D4 subtype is a G-protein

Target Details

	coupled receptor which inhibits adenylyl cyclase. It is a target for drugs which treat schizophrenia and Parkinson disease. Mutations in this gene have been associated with various behavioral phenotypes, including autonomic nervous system dysfunction, attention deficit/hyperactivity disorder, and the personality trait of novelty seeking. This gene contains a polymorphic number (2-10 copies) of tandem 48 nt repeats, the sequence shown contains four repeats.
Molecular Weight:	43901
NCBI Accession:	NP_000788
UniProt:	P21917
Pathways:	cAMP Metabolic Process, Synaptic Membrane, Proton Transport, Photoperiodism, Negative Regulation of Transporter Activity

Application Details

Application Notes:	WB: 1:100~250
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) 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
Expiry Date:	6 months

Publications

Product cited in:	Zeng, Ye, Lu, Chua, Tan, Zhong: "Chiral Brønsted acid catalyzed enantioselective addition of alpha-isocyanoacetamides to aldehydes." in: **Organic letters**, Vol. 12, Issue 10, pp. 2414-7, (2010) (PubMed). Lai, Zhu, Huo, Sun, Yu, Wang, Chai, Li: "Association study of polymorphisms in the promoter

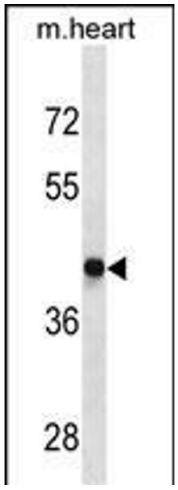
Publications

region of DRD4 with schizophrenia, depression, and heroin addiction." in: **Brain research**, Vol. 1359, pp. 227-32, (2010) (PubMed).

Gadow, Devincent, Olvet, Pisarevskaya, Hatchwell: "Association of DRD4 polymorphism with severity of oppositional defiant disorder, separation anxiety disorder and repetitive behaviors in children with autism spectrum disorder." in: **The European journal of neuroscience**, Vol. 32, Issue 6, pp. 1058-65, (2010) (PubMed).

Chio, Drong, Riley, Gill, Slightom, Huff: "D4 dopamine receptor-mediated signaling events determined in transfected Chinese hamster ovary cells." in: **The Journal of biological chemistry**, Vol. 269, Issue 16, pp. 11813-9, (1994) (PubMed).

Images



Western Blotting

Image 1. DRD4 Antibody (Center) (ABIN1882235 and ABIN2843892) western blot analysis in mouse heart tissue lysates (35 µg/lane).This demonstrates the DRD4 antibody detected the DRD4 protein (arrow).