

DESCRIPTION

Species Reactivity	Human
Specificity	Detects HEK293 cells transfected with human Dopamine D5 R/DRD5 by Flow Cytometry. Does not detect untransfected or irrelevant transfected HEK293 cells.
Source	Monoclonal Mouse IgG ₁ Clone # 889040
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Dopamine D5 R/DRD5 Accession # P21918
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

DRD5, also known as Dopamine D5 Receptor has a higher affinity for neurotransmitter dopamine than DRD1 (1). DRD5 is expressed in neurons in many human brain regions, including cortex regions, hippocampus, choroid plexus, and brainstem (2). Polymorphisms in the DRD5 gene have been associated with Attention Deficit Hyperactivity Disorder (ADHD) (3), schizophrenia (4) and nicotine dependence (5). Dopamine receptors undergo endocytosis upon interaction with receptor agonists and by activation of protein kinase C (PKC) (6).

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