

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Dopamine D2 R/DRD2 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 960710
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human DRD2 synthetic peptide Accession # P14416
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

Dopamine receptor D2 (DRD2) is localized to human striatum, motor cortex and neocortex. It is a highly conserved seven transmembrane receptor member of the G-protein coupled receptor 1 family, with three known isoforms. In the striatum, DRD2 suppresses voluntary activity in the striatopallidal pathway, and polymorphisms in this gene are associated with alcohol addiction, smoking behavior, schizophrenia, food addiction and post-traumatic stress disorder as well as myoclonus dystonia. DRD2 has been shown to heterodimerize with DDR4 and 5-HT_{2A} receptors, and traffics between the plasma membrane and intracellular pools and this localization can be modulated by several drugs. DRD2 is localized to human striatum, motor cortex and neocortex.

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