

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Dopamine D2 R/DRD2 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 960710
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human DRD2 synthetic peptide Accession # P14416
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	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-HT2A 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.

#### PRODUCT SPECIFIC NOTICES

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