Human Dopamine D2 R/DRD2 Antibody

Monoclonal Mouse IgG_1 Clone # 960710

Catalog Number: MAB9266

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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

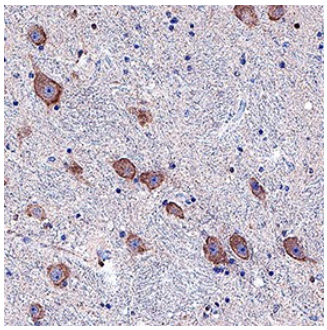
APPLICATIONS

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.*

	Recommended Concentration	Sample
Immunohistochemistry	5-25 µg/mL	See Below

DATA

Immunohistochemistry



Dopamine D2 R/DRD2 in Human Brain. Dopamine D2 R/DRD2 was detected in immersion fixed paraffin-embedded sections of human brain (striatum) using Mouse Anti-Human Dopamine D2 R/DRD2 Monoclonal Antibody (Catalog # MAB9266) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal cell membranes and cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

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