

Human Dopamine D1 R/DRD1 Antibody

Monoclonal Mouse IgG_{2A} Clone # 887438

Catalog Number: MAB8276

DESCRIPTION			
Species Reactivity	Human		
Specificity	Stains human Dopamine D1 R/DRD1 transfected cells but not irrelevant transfectants in flow cytometry.		
Source	Monoclonal Mouse IgG _{2A} Clone # 887438		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	NS0 mouse myeloma cell line transfected with human Dopamine D1 R/DRD1 Met1-Thr446 Accession # P21728		
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 either lyophilized or as a 0.2 µm filtered solution in PBS.		

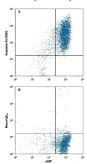
APPLICATIONS

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
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
Immunohistochemistry	8-25 μg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

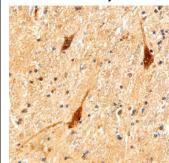
DATA

Flow Cytometry



Detection of Dopamine D1 R/DRD1 in HEK293 Human Cell Line Transfected with Human Dopamine D1/DRD1 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with human Dopamine D1/DRD1 and eGFP was stained with either (A) Mouse Anti-Human Dopamine D1 R/DRD1 Monoclonal Antibody (Catalog # MAB8276) or (B) Mouse IgG₂₄ Isotype Control (Catalog # MAB003) followed by Allophycocyaninconjugated Anti-Mouse IgG Secondary Antibody (Catalog #

Immunohistochemistry



Dopamine D1 R/DRD1 in Human Brain. Dopamine D1 R/DRD1 was detected in immersion fixed paraffin-embedded sections of human brain (caudate nucleus) using Mouse Anti-Human Dopamine D1 R/DRD1 Monoclonal Antibody (Catalog # MAB8276) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffinembedded 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

Dopamine Receptor D1 (DRD1) is a 50 kDa member of class 1 GPCR superfamily and is the most abundant dopamine receptor in the central nervous system. This G-protein coupled receptor stimulates adenylyl cyclase and activates cyclic AMP-dependent protein kinases. D1 receptors regulate neuronal growth and development, mediate some behavioral responses, and modulate dopamine receptor D2-mediated events. DRD1 is associated with nicotine dependence, schizophrenia, and systolic blood pressure levels

Rev. 2/7/2018 Page 1 of 1

