

# Human Dopamine D1 R/DRD1 Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG<sub>2A</sub> Clone # 887438

Catalog Number: FAB8276U

100 µg

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Stains human Dopamine D1 R/DRD1 transfected cells but not irrelevant transfectants in flow cytometry.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 887438
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human Dopamine D1 R/DRD1 Met1-Thr446 Accession # P21728
<b>Conjugate</b>	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	HEK293 human embryonic kidney cell line transfected with human Dopamine D1/DRD1 and eGFP

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

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.

## PRODUCT SPECIFIC NOTICES

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