

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Adenosine A2a R in HEK293 human cell line transfected with Human Adenosine A2a R and not irrelevant transfectants in flow cytometry.
Source	Monoclonal Mouse IgG _{2A} Clone # 599717
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Adenosine A2a R Met1-Ser412 Accession # P29274
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	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.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Human Adenosine A2a R and eGFP

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

ADORA-A2 (Adenosine A2a Receptor) is a widely expressed seven transmembrane G protein-coupled receptor. Activation by adenosine leads to increased intracellular cAMP levels. ADORA-2A mediates many biological functions, including cardiac rhythm and circulation, cerebral and renal blood flow, immune function, pain regulation, and sleep. ADORA-A2 has been identified as a target for therapeutic drugs for inflammation, cancer, ischemic reperfusion injury, diabetic nephropathy, infectious diseases and neuronal disorders.

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