

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Adenosine A2a R in HEK293 human cell line transfected with Human Adenosine A2a R and not irrelevant transfectants in flow cytometry.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 599717
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human Adenosine A2a R Met1-Ser412 Accession # P29274
<b>Formulation</b>	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.

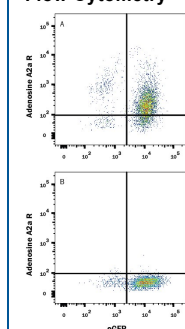
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below

## DATA

### Flow Cytometry



**Detection of Adenosine A2a R in HEK293 Human Cell Line Transfected with Human Adenosine A2a R and eGFP by Flow Cytometry.** HEK293 human embryonic kidney cell line transfected with either (A) human Adenosine A2a R or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human Adora A2 R Monoclonal Antibody (Catalog # MAB9497) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB003). View our protocol for [Staining Membrane-associated Proteins](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.