

**Antibody to Adenosine Receptor A2A (7F6-G5-A2)**
MOUSE MONOCLONAL

Catalog Number: AB-V58
Quantity: 100 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host: Mouse
Isotype: IgG2a
Clone: 7F6-G5-A2
Immunogen: 6His-tagged full length human recombinant A2A receptor

Background: The A2A adenosine receptor (ADORA2A) is a G protein-coupled receptor whose activity is mediated through G protein-dependent activation of adenylyl cyclase. It is widely expressed in the basal ganglia, vasculature, T lymphocytes, and platelets. A2A receptor signaling can suppress immune cell activity, providing protection against tissue inflammation, and may regulate myocardial oxygen demand and coronary blood flow through vasodilation. Its presence in the brain has also made it a target of interest in studies and potential treatments for insomnia, pain, depression, and Parkinson's disease.

Specificity & Preparation: This IgG2a mouse antibody is generated against human A2A and recognizes the 3rd intracellular loop of human, mouse, rabbit, dog, and rat homologs.

Usage: Applications include western blot, flow cytometry and immunohistochemistry. Working dilutions must be determined by end user.

Storage: Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

**Selected References:**

1. Koshiba M, Rosin DL, Hayashi N, Linden J, Sitkovsky MV (1999) Patterns of A2A extracellular adenosine receptor expression in different functional subsets of human peripheral T cells. Flow cytometry studies with anti-A2A receptor monoclonal antibodies. Mol Pharmacol 55(3):614-624. PMID: 10051547

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