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# Produktinformation

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- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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# PRODUCT INFORMATION

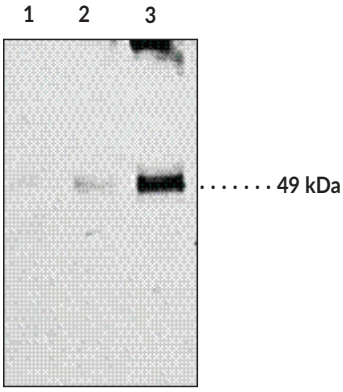
## Adenosine Receptor $A_{2A}$ Monoclonal Antibody (Clone 7F6-$G_5$-A2)

*Item No. 10011454*

### Overview and Properties

| | |
|---|---|
| **Contents:** | This vial contains 500 µg of affinity-purified monoclonal antibody. |
| **Synonyms:** | $A_{2A}$R, ADORA2A |
| **Immunogen:** | Human full length $A_{2A}$R; the antibody recognizes amino acids 213-220 (SQPLPGER) as determined by epitope mapping |
| **Cross Reactivity:** | (+) Human $A_{2A}$R; other species not tested but the epitope is identical in rodents, primates, and canines and is expected to work for these samples. (-) $A_1$R, $A_{2B}$R |
| **Form:** | Liquid |
| **Storage:** | -20°C (as supplied) |
| **Stability:** | ≥3 years |
| **Storage Buffer:** | PBS, pH 7.2, with 50% glycerol, 0.5 mg/ml BSA, and 0.02% sodium azide |
| **Clone:** | 7F6-$G_5$-A2 |
| **Host:** | Mouse |
| **Isotype:** | IgG2a |
| **Applications:** | Western blot (WB); the recommended starting concentration is 5 µg/ml. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically. |

### Image




**Lane 1:** $A_{2A}$R transfected HEK cell membrane fraction (6.5 µg)
**Lane 2:** $A_{2A}$R transfected HEK cell membrane fraction (13 µg)
**Lane 3:** $A_{2A}$R transfected HEK cell membrane fraction (26 µg)



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# PRODUCT INFORMATION

## Description

$A_{2A}R$ is a multi-pass membrane protein that is normally localized to the plasma membrane.[1] This receptor is part of the G protein-coupled receptor family that binds adenosine and serves multiple functions. Antagonists of this receptor have been targeted for the treatment of Parkinson's disease.[2,3] Early reports found this receptor is found primarily in the brain striatum, but is also found in immune cells and other tissues as well.[2] $A_{2A}R$ is comprised of 412 amino acids with an expected molecular weight of 45 kDa.[4,5] However multiple glycosylation sites exist that may explain the retarded migration observed by western blotting (45-50 kDa).[1] This antibody has been extensively characterized and the epitope has been mapped to the third intracellular loop of the receptor.[5]

## References


1. Piersen, C.E., True, C.D., and Well, J.N. A carboxyl-terminally truncated mutant and nonglycosylated A 2a adenosine receptors retain ligand binding. *Mol. Pharmacol.* **45(5)**, 861-870 (1994).
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3. Ledent, C., Vaugeois, J.-M., Schiffmann, S.N., *et al.* Aggressiveness, hypoalgesia and high blood pressure in mice lacking the adenosine $A_{2a}$ receptor. *Nature* **388(6643)**, 674-678 (1997).
4. Robeva, A.S., Woodward, R.L., Jin, X., *et al.* Molecular characterization of recombinant human adenosine receptors. *Drug Development Research* **39**, 243-252 (1996).
5. Rosin, D.L., Robeva, A., Woodward, R.L., *et al.* Immunohistochemical localization of adenosine $A_{2A}$ receptors in the rat central nervous system. *J. Comp. Neurol.* **401(2)**, 1631-186 (1998).



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