

**Product Name: ADORA2A Mouse Monoclonal Antibody**  
**Catalog #: AMM81934**



## Summary

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Production Name</b> | ADORA2A Mouse Monoclonal Antibody |
| <b>Description</b>     | Mouse Monoclonal Antibody         |
| <b>Host</b>            | Mouse                             |
| <b>Application</b>     | WB, ICC, FC, ELISA                |
| <b>Reactivity</b>      | Human, Mouse, Rat, Monkey         |

## Performance

|                     |  |
|---------------------|--|
| <b>Conjugation</b>  | Unconjugated   |
| <b>Modification</b> | Unmodified   |
| <b>Isotype</b>      | Mouse IgG2a  |
| <b>Clonality</b>    | Monoclonal   |
| <b>Form</b>         | Liquid   |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| <b>Buffer</b>       | Purified antibody in PBS with 0.05% sodium azide   |
| <b>Purification</b> | Affinity Purification  |

## Immunogen

|                          |  |
|--------------------------|--|
| <b>Gene Name</b>         | ADORA2A  |
| <b>Alternative Names</b> | A2aR; RDC8; ADORA2   |
| <b>Gene ID</b>           | 135.0  |
| <b>SwissProt ID</b>      | P29274. Purified recombinant fragment of human ADORA2A (AA: 274-412) expressed in E. Coli. |

## Application

|                         |   |
|-------------------------|---|
| <b>Dilution Ratio</b>   | WB:1:500-1:1000, ICC:1:100-1:500, FC:1:200-1:400, ELISA:1:10000 |
| <b>Molecular Weight</b> | 44.7kDa   |

## Background

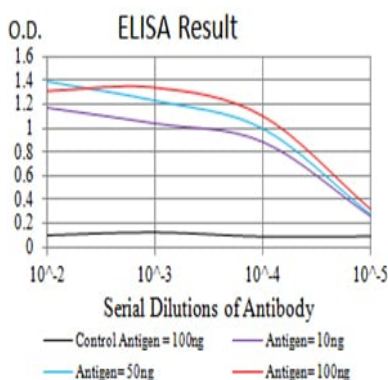
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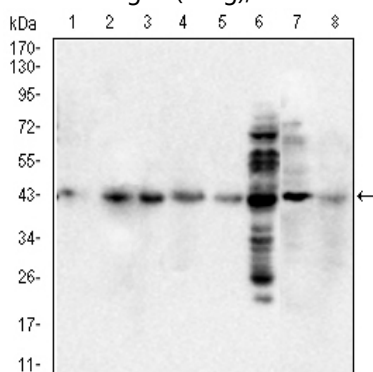
This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily, which is subdivided into classes and subtypes. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. This protein, an adenosine receptor of A2A subtype, uses adenosine as the preferred endogenous agonist and preferentially interacts with the G(s) and G(olf) family of G proteins to increase intracellular cAMP levels. It plays an important role in many biological functions, such as cardiac rhythm and circulation, cerebral and renal blood flow, immune function, pain regulation, and sleep. It has been implicated in pathophysiological conditions such as inflammatory diseases and neurodegenerative disorders. Alternative splicing results in multiple transcript variants. A read-through transcript composed of the upstream SPECC1L (sperm antigen with calponin homology and coiled-coil domains 1-like) and ADORA2A (adenosine A2a receptor) gene sequence has been identified, but it is thought to be non-coding.

## Research Area

## Image Data

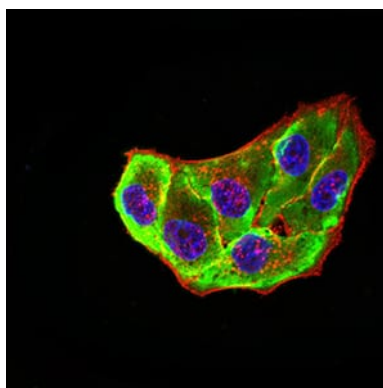


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

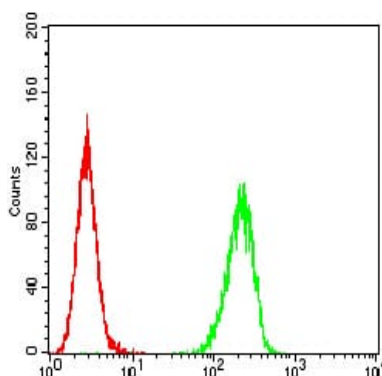


Western blot analysis using ADORA2A mouse mAb against  
CHO3D10(1),COS7(2),F9(3),L1210(4),C6(5),C2C12(6),NIH/3T3(7),Raw264.7(8) cell lysate.

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Immunofluorescence analysis of HeLa cells using ADORA2A mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



Flow cytometric analysis of HeLa cells using ADORA2A mouse mAb (green) and negative control (red).

## Note

For research use only.