


## Product datasheet

# Anti-Adenosine Receptor A2α antibody [7F6-G5-A2] ab79714

★★★★★ 2 Abreviews 4 References 2 Images

### Overview

<b>Product name</b>	Anti-Adenosine Receptor A2α antibody [7F6-G5-A2]
<b>Description</b>	Mouse monoclonal [7F6-G5-A2] to Adenosine Receptor A2α
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Guinea pig, Hamster, Dog, Non human primates 
<b>Immunogen</b>	Full length protein corresponding to Human Adenosine Receptor A2α. Database link: <a href="#">P29274</a>
<b>Epitope</b>	Recognises amino acids 213-220 (SQPLPGER) within the third intracellular loop.
<b>Positive control</b>	This antibody gave a positive result when used in the following methanol fixed cell lines: SKNSH In western blot, this antibody gave a positive result in SHSY-5Y, SK-N-SH, PC12 and human platelet whole cell lysates.
<b>General notes</b>	<p>This antibody clone is manufactured by Abcam.</p> <p>If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a> or you can find further information <a href="#">here</a>.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p>

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified by running the antiserum from the injected animal through an affinity column with the antigen bound to a beaded agarose gel.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	7F6-G5-A2
<b>Isotype</b>	IgG2a

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab79714** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

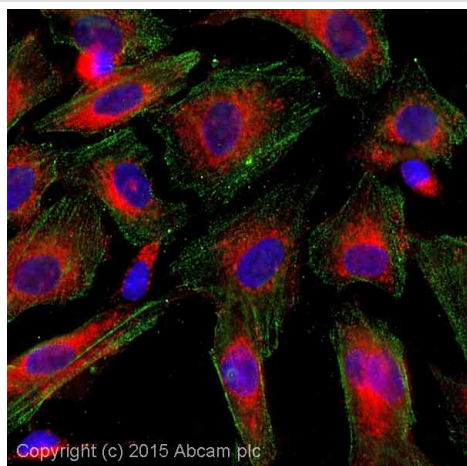
Application	Abreviews	Notes
WB	★★★★☆	Use a concentration of 1 - 5 µg/ml. Detects a band of approximately 42 kDa (predicted molecular weight: 45 kDa). We recommend using 1% BSA as a blocking agent for western blot.
ICC/IF	★★★★☆	Use a concentration of 5 µg/ml.

## Target

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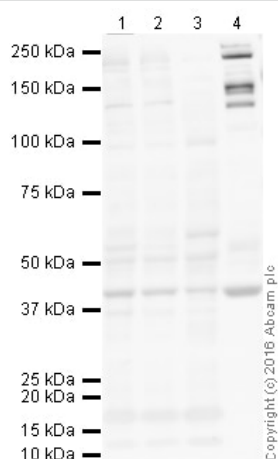
<b>Function</b>	Receptor for adenosine. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase.
<b>Sequence similarities</b>	Belongs to the G-protein coupled receptor 1 family.
<b>Domain</b>	The cytoplasmic C-terminal domain is necessary for targeting the non-ubiquitinated form of this protein to the cell surface.
<b>Post-translational modifications</b>	Ubiquitinated. Deubiquitinated by USP4; leading to stabilization and expression at the cell surface.
<b>Cellular localization</b>	Cell membrane.

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Immunocytochemistry/ Immunofluorescence - Anti-Adenosine Receptor A2a antibody [7F6-G5-A2] (ab79714)

ICC/IF image of ab79714 stained SKNSH cells. The cells were 100% methanol fixed (5 min) then permeabilised using 0.1% PBS-Triton and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to further permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab79714 at 5µg/ml overnight at +4°C. The secondary antibody (pseudo-colored green) was Alexa Fluor® 488 goat anti- mouse (ab150117) IgG (H+L) preadsorbed, used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1h at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1 hour at room temperature.



Western blot - Anti-Adenosine Receptor A2a antibody [7F6-G5-A2] (ab79714)

**All lanes :** Anti-Adenosine Receptor A2a antibody [7F6-G5-A2] (ab79714) at 5 µg/ml

**Lane 1 :** SHSY-5Y (Human neuroblastoma cell line) Whole Cell Lysate

**Lane 2 :** SK-N-SH (Human neuroblastoma) Whole Cell Lysate

**Lane 3 :** PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate

**Lane 4 :** Platelet (Human) Whole Cell Lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 45 kDa

**Exposure time:** 2 minutes

We recommend using 1% BSA as a blocking agent for western

blot. Milk is not a suitable blocking agent for this product.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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