abcam

Product datasheet

Anti-Adenosine Receptor A2a antibody [7F6-G5-A2] ab79714

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Overview

Product name	Anti-Adenosine Receptor A2a antibody [7F6-G5-A2]
Description	Mouse monoclonal [7F6-G5-A2] to Adenosine Receptor A2a
Host species	Mouse
Specificity	This antibody is recommended for tissue lysates only. In house testing has shown no signal in Western Blot for SH-SY5Y, SK-N-SH, PC-12 or HeLa cell lines.
Tested applications	**Suitable for:** IHC-P, WB **Unsuitable for:** ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Guinea pig, Hamster, Dog, Non human primates
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
Epitope	Recognises amino acids 213-220 (SQPLPGER) within the third intracellular loop.
Positive control	WB: Human, mouse, and rat brain tissue lysates. IHC-P: Rat, mouse and human brain caudate nucleus.
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide

	Constituents: PBS, 6.97% L-Arginine
Purity	Protein G purified
Purification notes	Purified by running the antiserum from the injected animal through an affinity column with the antigen bound to a beaded agarose gel.
Clonality	Monoclonal
Clone number	7F6-G5-A2
Isotype	IgG2a

Applications

The Abpromise guarantee 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.

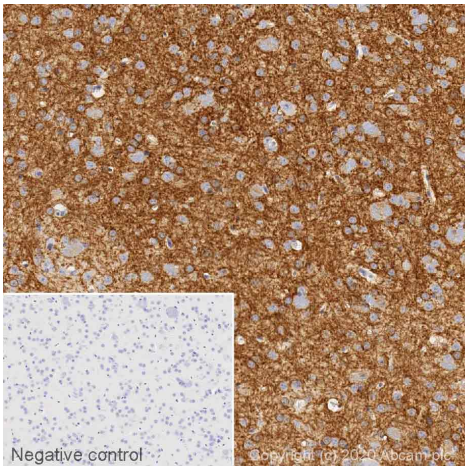
Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★☆ (1)	Use a concentration of 1 - 5 µg/ml. Detects a band of approximately 42 kDa (predicted molecular weight: 45 kDa). We recommend using 1% BSA as a blocking agent for western blot.

Application notes Is unsuitable for ICC/IF.

Target

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

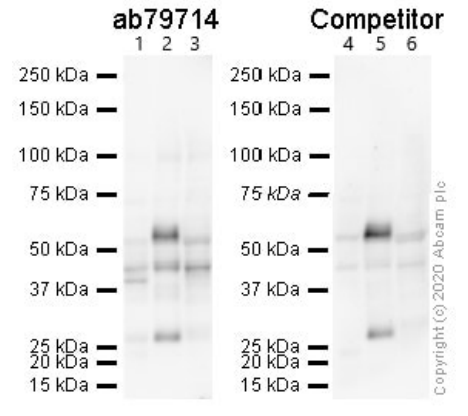
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenosine Receptor A2a antibody [7F6-G5-A2] (ab79714)

IHC image of Adenosine Receptor A2a staining in Mouse normal brain Caudate Nucleus formalin fixed paraffin embedded tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab79714, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



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

Lanes 1-3 : Anti-Adenosine Receptor A2a antibody [7F6-G5-A2] (ab79714) at 5 µg/ml
Lanes 4-6 : Competitor product at 5 µg/ml

Lanes 1 & 4 : Human brain tissue lysate
Lanes 2 & 5 : Mouse brain tissue lysate
Lanes 3 & 6 : Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

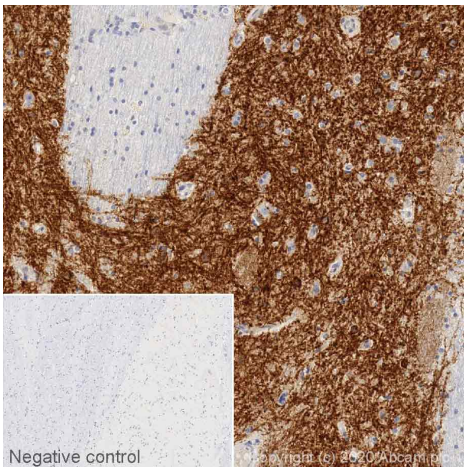
Secondary
All lanes : Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/5000 dilution

Predicted band size: 45 kDa
Observed band size: 45 kDa
Additional bands at: 25 kDa, 39 kDa, 55 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 20 minutes

Blocking buffer: 1% BSA

Gel type: MOPS

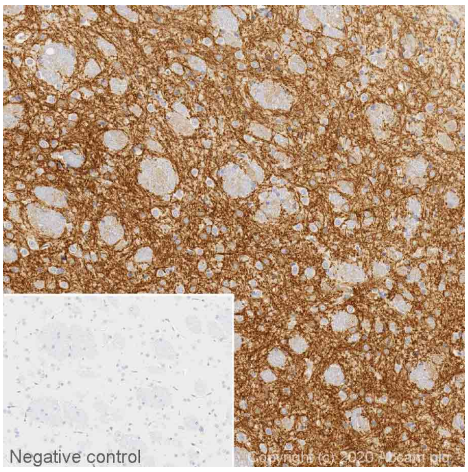


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenosine Receptor A2a antibody [7F6-G5-A2] (ab79714)

IHC image of Adenosine Receptor A2a staining in Human normal brain Caudate Nucleus formalin fixed paraffin embedded tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab79714, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

**Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre*



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenosine Receptor A2a antibody [7F6-G5-A2] (ab79714)

IHC image of Adenosine Receptor A2a staining in Rat normal brain Caudate Nucleus formalin fixed paraffin embedded tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab79714, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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