

## Product datasheet

# Anti-Adenosine Receptor A2α antibody [EPR23731-50] ab260032

Recombinant RabMAb

[1 References](#) [12 Images](#)

### Overview

<b>Product name</b>	Anti-Adenosine Receptor A2a antibody [EPR23731-50]
<b>Description</b>	Rabbit monoclonal [EPR23731-50] to Adenosine Receptor A2a
<b>Host species</b>	Rabbit
<b>Specificity</b>	Expression levels of the target protein vary with sample type and optimisation may be required. In our hands we are only able to detect ADORA2A in relevant neurological samples and do not recommend this product for use in other samples.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P <b>Unsuitable for:</b> IP or WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IHC-P: Human cerebrum tissue; Mouse cerebrum tissue; Rat cerebrum tissue.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR23731-50
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab260032 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

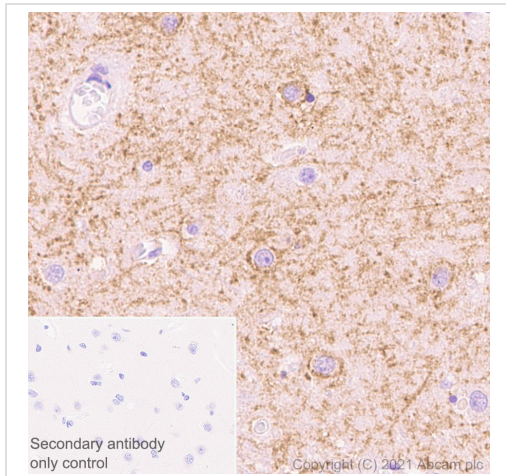
Application	Abreviews	Notes
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for IP or WB.

## Target

<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.

## Images

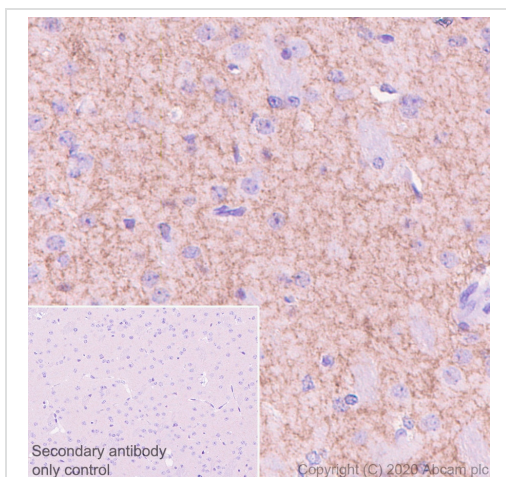


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenosine Receptor A2a antibody [EPR23731-50] (ab260032)

Immunohistochemical analysis of paraffin-embedded human cerebrum (striatum) tissue labeling Adenosine receptor A2a with ab260032 at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on human cerebrum is observed. The section was incubated with ab260032 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

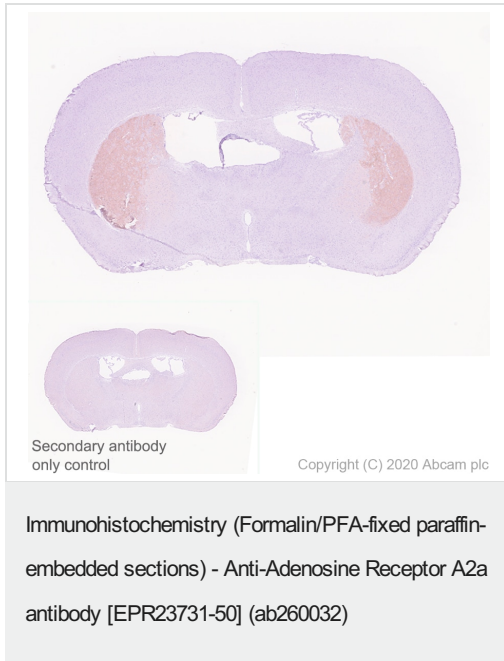


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenosine Receptor A2a antibody [EPR23731-50] (ab260032)

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling Adenosine receptor A2a with abab260032 at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on mouse cerebrum (PMID: 21858817, PMID: 29022877). The section was incubated with ab260032 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

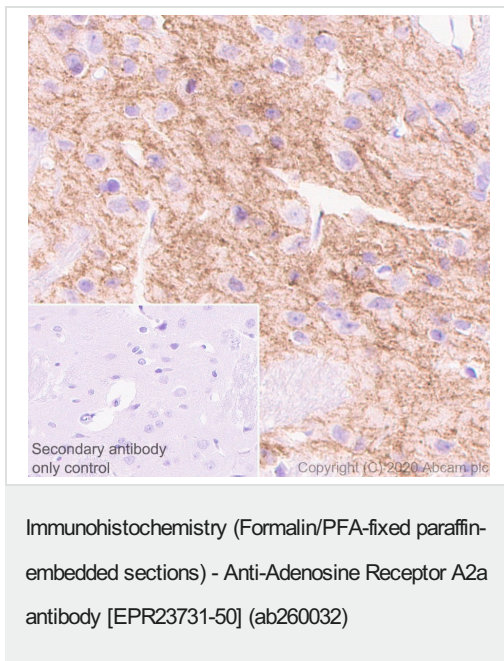
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling Adenosine receptor A2a with abab260032 at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on the striatum of the mouse cerebrum (PMID: 21858817). The section was incubated with ab260032 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

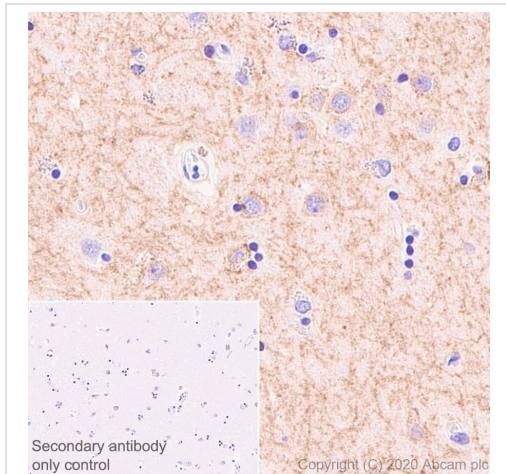
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling Adenosine receptor A2a with abab260032 at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on rat cerebrum (PMID: 21858817, PMID: 29022877). The section was incubated with ab260032 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

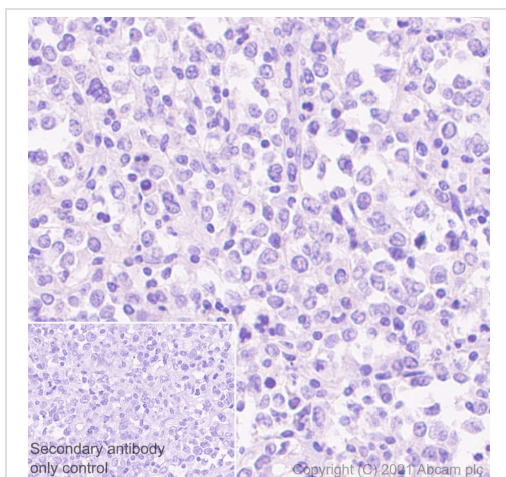


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenosine Receptor A2a antibody [EPR23731-50] (ab260032)

Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labeling Adenosine receptor A2a with abab260032 at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on human cerebrum (PMID: 21858817, PMID: 29022877). The section was incubated with ab260032 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



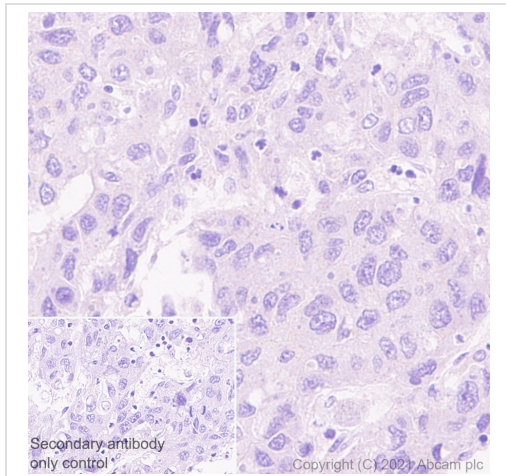
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenosine Receptor A2a antibody [EPR23731-50] (ab260032)

Immunohistochemical analysis of paraffin-embedded human diffuse large B-cell lymphoma tissue labeling Adenosine receptor A2a with ab260032 at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). The section was incubated with ab260032 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

**Negative control:** No staining observed on human diffuse large B-cell lymphoma tissue .

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



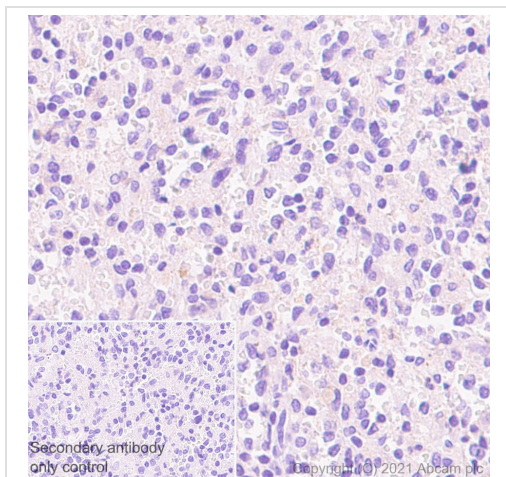
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenosine Receptor A2a antibody [EPR23731-50] (ab260032)

Immunohistochemical analysis of paraffin-embedded human hepatocellular carcinoma tissue labeling Adenosine receptor A2a with ab260032 at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). The section was incubated with ab260032 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

**Negative control:** No staining observed on human hepatocellular carcinoma tissue.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



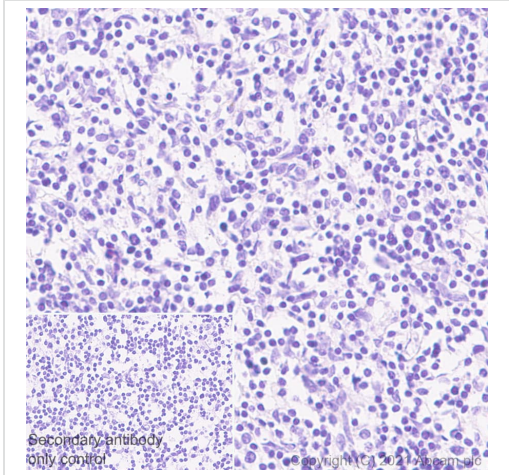
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenosine Receptor A2a antibody [EPR23731-50] (ab260032)

Immunohistochemical analysis of paraffin-embedded human spleen tissue labeling Adenosine receptor A2a with ab260032 at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). The section was incubated with ab260032 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

**Negative control:** No staining observed on human spleen tissue.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenosine Receptor A2a antibody [EPR23731-50] (ab260032)

Immunohistochemical analysis of paraffin-embedded human thymoma tissue labeling Adenosine receptor A2a with ab260032 at 1/100 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). The section was incubated with ab260032 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

**Negative control:** No staining observed on human thymoma tissue.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Tissue Microarray (TMA) data for ab260032					
Mouse normal tissue samples			Rat normal tissue samples		
Mouse cardiac muscle	x	Mouse pancreas	x	Rat cardiac muscle	x
Mouse cerebrum	✓	Mouse skeletal muscle	x	Rat cerebrum	✓
Mouse colon	x	Mouse skin	Non specific	Rat colon	x
Mouse kidney	Non specific	Mouse spleen	x	Rat kidney	Non specific
Mouse liver	Non specific	Mouse stomach	x	Rat liver	Non specific
Mouse lung	x	Mouse testis	x	Rat lung	x

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenosine Receptor A2a antibody [EPR23731-50] (ab260032)

Tissue Microarrays stained for "Anti-Adenosine Receptor A2a antibody [EPR23731-50]" using "ab260032" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with ab260032 for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Tissue Microarray (TMA) data for ab260032					
Human normal tissue samples			Human malignant tissue samples		
Human cardiac muscle	x	Human pancreas	x	Human hepatocellular carcinoma	x
Human cerebrum	✓	Human placenta	x	Human lung carcinoma	x
Human colon	x	Human skeletal muscle	x	Human lung squamous carcinoma	x
Human endometrium	x	Human skin	x	Human ovarian carcinoma	x
Human eye	x	Human spleen	x	Human pancreatic carcinoma	x
Human kidney	x	Human stomach	x	Human prostatic hyperplasia	x
Human liver	x	Human testis	x	Human thyroid carcinoma	x
Human lung	x	Human thyroid	x		
Human mammary gland	x	Human tonsil	x		

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Adenosine Receptor A2a antibody [EPR23731-50] (ab260032)

Tissue Microarrays stained for "Anti-Adenosine Receptor A2a antibody [EPR23731-50]" using "ab260032" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with ab260032 for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Adenosine Receptor A2a antibody [EPR23731-50] (ab260032)

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