

## Product datasheet

# Anti-Adenosine phosphate antibody [EPR8471] ab140604

Recombinant RabMAb

[2 Images](#)

### Overview

**Product name** Anti-Adenosine phosphate antibody [EPR8471]  
**Description** Rabbit monoclonal [EPR8471] to Adenosine phosphate

ⓘ This product is a [fast track antibody](#). It has been affinity purified and shows high titre values against the immunizing peptide by ELISA.

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**Host species** Rabbit  
**Specificity** ab140604 recognizes cAMP, AMP, ADP, and ATP only. It has less cross-reactivity with cGMP, GMP, GDP, GTP, and Adenosine.  
**Species reactivity** **Reacts with:** Species independent  
**Immunogen** Chemical/ Small Molecule corresponding to Adenosine phosphate conjugated to keyhole limpet haemocyanin.  
**Positive control** cAMP, AMP, ADP, and ATP  
**General notes**

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

### Properties

**Form** Liquid  
**Storage instructions** Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR8471
<b>Isotype</b>	IgG

## Applications

Fast track antibodies constitute a diverse group of products that have been released to accelerate your research, but are not yet fully characterized. They have all been affinity purified and show high titre values against the immunizing peptide (by ELISA).

[Fast track terms of use](#)

Application	Abreviews	Notes
ELISA		Use a concentration of 0.1 µg/ml.

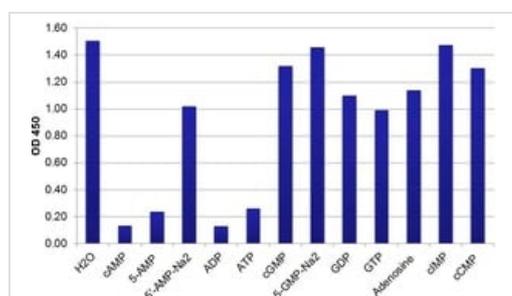
## Target

### Relevance

Cyclic adenosine-3', 5'-monophosphate (cAMP) is the second messenger in the intracellular signal cascade, which is synthesis from adenosine triphosphate (ATP) by adenylyl cyclase. In the brain, cAMP signaling is involved in a multitude of mechanisms in neurons, astrocytes, oligodendrocytes and microglia. Examples are signal transduction in synapses, communication between neurons and glia cells or inflammatory processes. Alternations of cAMP affect normal brain functions; hence making cAMP a potential biomarkers for Parkinson's diseases, amyotrophic lateral sclerosis and Creutzfeldt-Jakob disease

## Images

This Fast-Track antibody is not yet fully characterised. These images represent **inconclusive preliminary data**.



ELISA - Anti-Adenosine phosphate antibody  
[EPR8471] (ab140604)

50 µl of 0.1ug/ml of cAMP-SPDP-BSA was coated into 96-wells. After blocking with 1% BSA, 25 µl of 5 mg/ml of cAMP, 5'-AMP, 5'-AMP-Na2, ADP, ATP, cGMP, GMP, GDP, GTP, cIMP, cCMP, Adenosine, or H2O and 25 µl of ab140604 at 0.5 ug/ml were added to 96-wells and incubated for 30 min on a shaker. After washing, HRP conjugated goat anti-rabbit IgG Fc specific antibody was added and incubated. After washing, TMB substrate was used to develop color.

## 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 phosphate antibody [EPR8471]

(ab140604)

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

## Terms and conditions

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- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors