abcam

Product datasheet

# Anti-Adenosine phosphate antibody [EPR8471] - BSA and Azide free ab228606

Recombinant RabMAb

2 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-Adenosine phosphate antibody [EPR8471] - BSA and Azide free |
| **Description** | Rabbit monoclonal [EPR8471] to Adenosine phosphate - BSA and Azide free |
| **Host species** | Rabbit |
| **Specificity** | This antibody recognizes cAMP, AMP, ADP, and ATP only. It has less cross-reactivity with cGMP, GMP, GDP,GTP, and Adenosine. |
| **Tested applications** | **Suitable for:** ELISA |
| **Species reactivity** | **Reacts with:** Species independent |
| **Immunogen** | Chemical/ Small Molecule corresponding to Adenosine phosphate conjugated to keyhole limpet haemocyanin. KLH conjugated cAMP. |
| **Positive control** | cAMP, AMP, ADP, and ATP |
| **General notes** | ab228606 is the carrier-free version of **ab140604**.<br><br>Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.<br><br>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.<br><br>Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.<br><br>This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.<br><br>This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**. |

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| **Storage buffer** | pH: 7.2<br>Constituent: PBS |
| **Carrier free** | Yes |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR8471 |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab228606 in the following tested applications.

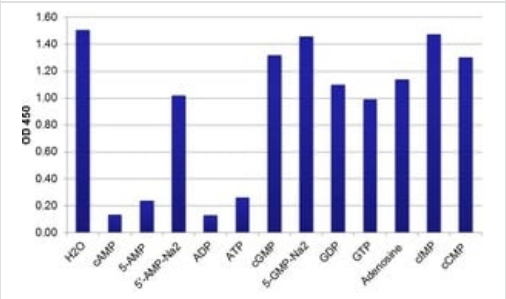
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **ELISA** | | Use at an assay dependent concentration. |

## 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




ELISA - Anti-Adenosine phosphate antibody [EPR8471] - BSA and Azide free (ab228606)

This data was developed using **ab140604**, the same antibody clone in a different buffer formulation.50 µl of 0.1µg/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 µg/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.


Anti-Adenosine phosphate antibody [EPR8471] - BSA and Azide free (ab228606)

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

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