

cAMP Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1162a**Specification**

cAMP Antibody - Product Information

Application	E
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1

Description

Cyclic adenosine monophosphate (cAMP) plays a key role as an intracellular second messenger for transduction events that follow a number of extracellular signals. The G-Protein Coupled Receptors (GPCR) is the largest family of cell surface receptors. They can be activated by different ligands, such as neurotransmitters, hormones, ions, small molecules, peptides, and other physiological signaling molecules. Typically, the binding of the ligands to its receptor resulting in the activation of G-proteins, in return, activates the effector adenylyl cyclase evoking the production of cAMP. The activation of a protein kinase by cAMP results in the phosphorylation of substrate proteins. Currently successful drugs in marketing have been developed to target these receptors. Among the GPCRs, ~367 receptors are potential drug development targets, but only about 20 have been used to generate therapeutically and commercially successful drugs so far. Because the involvement of cAMP can amplify the response of the ligand binding, the second messenger cAMP has been largely employed to monitor the activation of the GPCR to facilitate the therapeutic drug discovery

Immunogen

cAMP, conjugated to KLH.

Formulation

Ascitic fluid containing 0.03% sodium azide.

cAMP Antibody - Additional Information**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

cAMP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

cAMP Antibody - Protein Information**cAMP Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

cAMP Antibody - Images

cAMP Antibody - References

1. Int J Osteopath Med. 2007 Mar;10(1):3.
2. J Clin Endocrinol Metab. 2008 Mar 18.