

cAMP Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1162a

Product Information

Application	E
Host	Mouse
Clonality	Monoclonal
Clone Names	9H4C4
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.

Additional Information

Dilution	E~~N/A
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.

References

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.