

Product datasheet

Anti-cAMP antibody ab12414

Overview

Product name	Anti-cAMP antibody
Description	Rabbit polyclonal to cAMP
Host species	Rabbit
Specificity	Percent crossreactivity with other nucleotides: 5'-Adenosine Monophosphate <0.001% 5'-Adenosine Diphosphate <0.001% 5'-Adenosine Triphosphate <0.001% 3':5'-cGMP <0.001%
Tested applications	Suitable for: RIA
Immunogen	Cyclic AMP-2'-BSA

Properties

Form	Lyophilized: To one vial of lyophilized powder add 1.0 ml of 0.1% BSA in distilled water. Rotate gently until powder is dissolved. After reconstitution, separate into aliquots and freeze. Repeated freezing and thawing is not recommended. After thawing, keep on ice and discard if unused within 12 hours.
Storage instructions	Store at +4°C.
Storage buffer	Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab12414 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
RIA		1/10.

Target

Relevance

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.

Cellular localization

Secreted

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