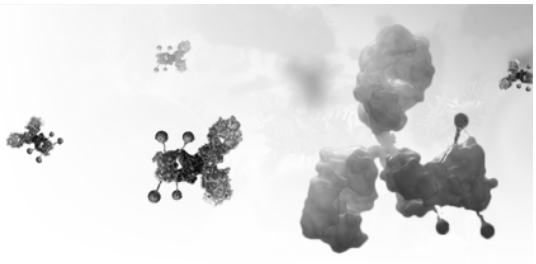

# Rabbit anti-Human Cyclic Adenosine Monophosphate Polyclonal antibody (DPAB3166)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| **Product Overview** | Polyclonal Antibody to cAMP |
| **Specificity** | Synthetic human succinylated cAMP |
| **Immunogen** | Synthetic human succinylated cAMP, BSA conjugated |
| **Isotype** | IgG |
| **Source/Host** | Rabbit |
| **Species Reactivity** | Human |
| **Conjugate** | Unconjugated |
| **Applications** | RIA |
| **Format** | Serum |
| **Concentration** | 20 µl / 100 µl (lyophilized) resuspend in 20 µl / 100 µl aqua bidest |
| **Preservative** | None |
| **Storage** | 2-8°C (lyophilized); - 20°C (dissolved) Repeated thawing and freezing must be avoided |

## BACKGROUND

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| **Introduction** | 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 |

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

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|---|---|
| | 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. |
| **Keywords** | 3" 5" cyclic adenosine monophosphate; Cyclic adenosine monophosphate; Cyclic AMP; Camp; Cyclic Adenosine Monophosphate |

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Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221