

## cAMP

**Catalog Number:** 26002-1

**Description:** Anti-cAMP Mouse Monoclonal Antibody

**Background:** cAMP is a ubiquitous second messenger mediating cellular responses to various exogenous and endogenous signaling molecules. cAMP regulates physiological processes by activating protein kinases, gating specific ion channels, modulating cellular cyclic nucleotide concentrations through phosphodiesterases, and activating Epac (exchange protein directly activated by cAMP). The conversion of ATP to cAMP is catalyzed by adenylyl cyclases (ACs). The major family of ACs in mammals is the transmembrane ACs which have nine isoforms and could be activated by G protein Gs and/or Ca<sup>2+</sup>/calmodulin. There is also one soluble AC which could be modulated by bicarbonate and/or Ca<sup>2+</sup>.

**Immunogen:** cAMP

**Tested Applications:** ELISA, WB, IHC

**Recommended Dilutions:**

ELISA 1:1000-1:5000

WB 1:1000-1:2000

**Host:** Mouse

**Clonality:** Monoclonal

**Isotype:** IgG

**Purity:** Purified from ascites

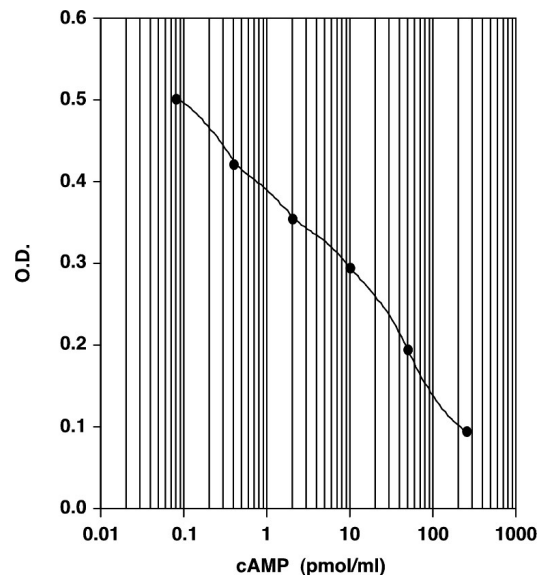
**Format:** Liquid

**Preservative:** No

**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl and 50% glycerol

**Storage Conditions:** Store at -20°C. Avoid freeze / thaw cycles

### Typical Standard Curves



### Sensitivity

Acetylated Version

Mean OD for Bo = 0.565 ± 0.007

Mean OD for Standard #6 = 0.500 ± 0.006

Delta Optical Density (0-0.08 pmol/mL) = 0.065

2 SD's of the Zero Standard = 0.014

Sensitivity =  $\frac{0.014}{0.065} \times 0.08 \text{ pmol/mL} = 17 \text{ fmol/mL}$

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