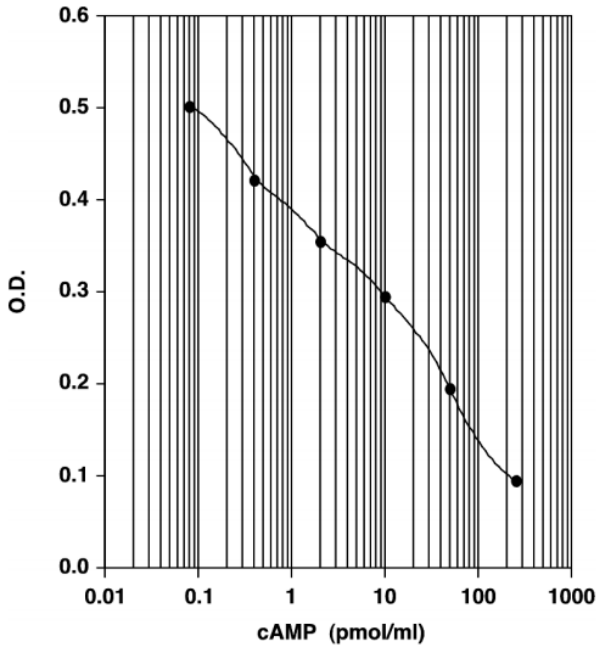
# CAMP MAB (NO ACETYLATION)

## cAMP mAb (No Acetylation)

**Cat. #:** 26002-2
**Size:** 30 µL
**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 Ca2+/calmodulin. There is also one soluble AC which could be modulated by bicarbonate and/or Ca2+.
**Immunogen:** cAMP
**Applications:** ELISA, WB, IHC
**Recommended Dilutions:**
ELISA 1:1000-1:5000
WB 1:500-1:2000
**Concentration:** 1 mg/ml
**Host Species:** Mouse
**Format:** Liquid
**Clonality:** Monoclonal
**Isotype:** IgG
**Purity:** Purified from ascites
**Preservative:** No
**Constituents:** PBS (without $Mg^{2+}$ and $Ca^{2+}$), pH 7.4, 150 mM NaCl, 50% glycerol
**Storage Conditions:** Store at -20°C. Avoid repeated freezing and thawing




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

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