

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

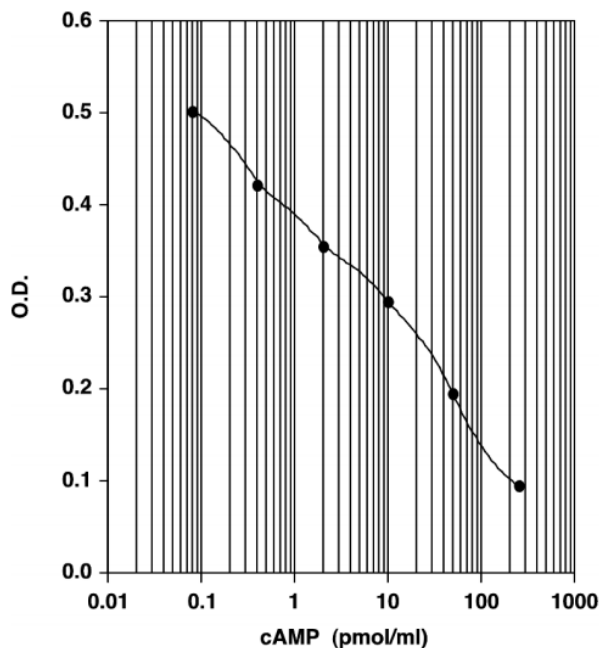
Isotype: IgG

Purity: Purified from ascites

Preservative: No

Constituents: PBS (without Mg²⁺ and Ca²⁺), 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
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Mean OD for Standard #6 =	0.500 ± 0.006
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Delta Optical Density (0-0.08 pmol/mL) =	0.065
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2 SD's of the Zero Standard =	0.014
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Sensitivity = $\frac{0.014}{0.065} \times 0.08 \text{ pmol/mL}$ =	17 fmol/mL
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