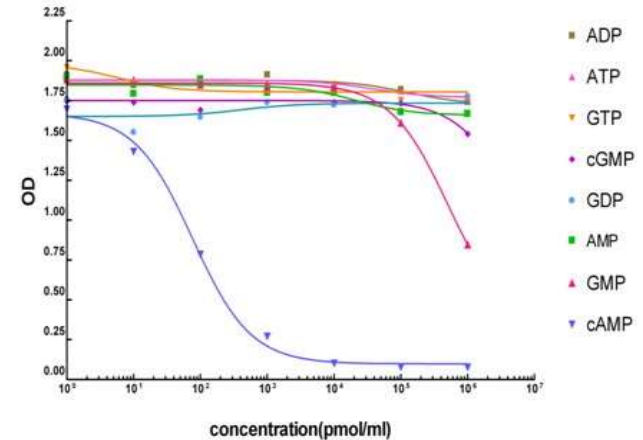


Anti-cGMP Antibody

CATALOG NO:	A1286-50
AMOUNT:	50 µg
IMMUNOGEN:	3', 5'-cyclic AMP-8-KLH
CLONE:	4H2B6
HOST/ISOTYPE:	Mouse IgG2a, κ
PURIFICATION:	Protein A purification
FORM:	Liquid
FORMULATION:	PBS, pH 7.4, containing 0.02% sodium azide
SPECIFICITY:	The specificity of the antibody is defined as the ratio of antigen concentration to cross-reactant concentration at 50% inhibition of maximum binding.
STORAGE CONDITIONS:	Store at 2-8°C for 2-3 weeks. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
DESCRIPTION:	Adenosine 3, 5-cyclic monophosphate (cyclic AMP; cAMP) is one of the most important intracellular secondary messengers for transduction events. cAMP is also involved in regulating neuronal, glandular, cardiovascular, immune, and other functions and actions. A number of hormones, such as ACTH, TSH, FSH, and LH, are known to activate cAMP through the action of the enzyme adenylate cyclase, which converts ATP to cAMP. There remains considerable interest in the measurement of intracellular cAMP in tissues and cell cultures, and this may help to provide an understanding of the physiology and pathology of many disease states. Due to the involvement of cAMP in amplifying the response of ligand binding, the second messenger cAMP has been largely employed to monitor the activation of GPCR to facilitate therapeutic drug discovery.
APPLICATION:	ELISA: 0.04-0.1 µg/ml This antibody is derived from immunization of cyclic AMP derivative conjugated to KLH at position 8 of the adenine structure. It may react well with cGMP conjugated via other positions

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



cAMP Competitive ELISA:

1. ELISA plate was coated with goat anti mouse IgG antibody
2. Anti-cAMP monoclonal antibody at appropriate dilution and cAMP standards or testing compounds were added into appropriate reaction wells.
3. After a period of incubation, cAMP-HRP conjugate was added followed by proper period of incubation.
4. ELISA plate was washed with ELISA washing buffer, then TMB substrate was added and developed at room temperature.
5. Stop the reaction with 1.0 N HCl and read the plate at 450nm

RELATED PRODUCTS:

- cGMP Antibody (**Cat. No. 3568**)
- cGMP Direct Immunoassay Kit (Colorimetric) (**Cat. No. K372**)
- 8-Br-cGMP (**Cat. No. 1838**)
- His-Tag Antibody (Clone 11E12) (**Cat. No. 6714-100**)
- His-Tag Antibody (Clone BV-G020) (**Cat. No. 3646-100**)

FOR RESEARCH USE ONLY! Not to be used on humans.