

Rev03
Update: Dec,14,2021

DATASHEET

cAMP Antibody, pAb, Rabbit

Cat. No.: A00614

Overview

Specificity	The specificity of antiserum is defined as the ratio of antigen concentration to cross-reactant concentration at 50% inhibition of maximum binding. The cross-reactivity data obtained in competitive ELISA system is as follows: <table border="1"><thead><tr><th>Compound</th><th>% Cross-reactivity</th></tr></thead><tbody><tr><td>cAMP</td><td>100</td></tr><tr><td>AMP</td><td>0.014</td></tr><tr><td>cGMP</td><td>0.029</td></tr><tr><td>GMP</td><td>0.022</td></tr><tr><td>ADP</td><td>0.0069</td></tr><tr><td>GDP</td><td>0.0011</td></tr><tr><td>ATP</td><td><0.0001</td></tr><tr><td>GTP</td><td><0.0001</td></tr></tbody></table>	Compound	% Cross-reactivity	cAMP	100	AMP	0.014	cGMP	0.029	GMP	0.022	ADP	0.0069	GDP	0.0011	ATP	<0.0001	GTP	<0.0001
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Host Species	Rabbit																		
Immunogen	3', 5'-cyclic AMP-8-KLH																		
Conjugate	Unconjugated																		

Applications

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

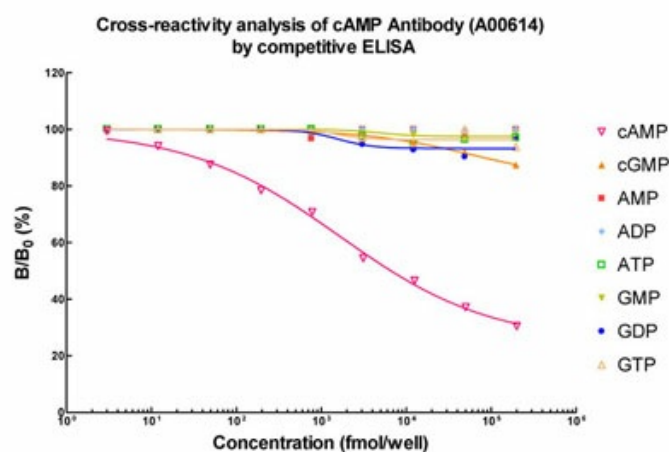
Application	Recommended Usage
ELISA	1:4,000-1:40,000
Sensitivity	Sensitivity is defined as the 90% intercept of a B/B ₀ standard curve. In competitive ELISA system the sensitivity has been found to be 1-50 fmol/well.

Properties

Form	Liquid
Storage Buffer	Antiserum containing 0.02% sodium azide
Concentration	Not applicable

Storage Instructions	The antibody is stable for 2-3 weeks if stored at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
Purification	Antiserum
Isotype	Rabbit IgG
Clonality	Polyclonal
Clone Id	Not applicable
Note	Small volume of antibody will occasionally become entrapped in the cap of the vial during shipment and storage. Before use, centrifuge the vial briefly to bring down any liquid in the cap.

Examples



Cross-reactivity analysis of cAMP Antibody, pAb, Rabbit (GenScript, A00614) by competitive ELISA.

Background

Target Background : 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. GenScript Rabbit Anti-cAMP Polyclonal Antibody is developed in rabbit using 3', 5'-cyclic AMP-8-KLH as the immunogen.

Synonyms : Rabbit Anti cAMP pAb;

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.