

# **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

# **cGMP**

Catalog Number: 26001-1

Description: Anti-cGMP Mouse Monoclonal Antibody

Background: cGMP is a ubiquitous second messenger mediating cellular responses to various exogenous and endogenous signaling molecules. cGMP regulates physiological processes by activating protein kinases, gating specific ion channels, and modulating cellular cyclic nucleotide concentrations through phosphodiesterases. The conversion of GTP to cGMP is catalyzed by guanylyl cyclases (GCs). There are two types of GCs in mammals: the soluble and the membranebound GCs. The soluble GCs are generally activated when nitric oxide binds to the attached prosthetic heme group. Seven membrane-bound GCs (also named transmembrane or particulated GCs) have been identified in the human genome. GC-A and GC-B are natriuretic peptide receptors. GC-C can be activated by bacterial heat-stable enterotoxins, guanylin and uroguanylin. The activity of transmembrane GCs can also be modulated by other receptor signals through intracellular signaling pathways.

#### Immunogen: cGMP

Tested Applications: ELISA, WB, IHC

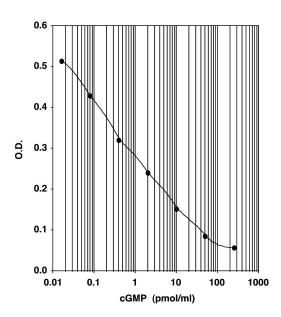
#### **Recommended Dilutions:**

**ELISA** 1:1000-1:5000, WB 1:1000-1:2000, Host: mouse Clonality: Monoclonal Isotype: IgG Purity: Purified from ascites Format: Liquid Preservative: No

150 mM NaCl, 50% glycerol

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

### **Typical Standard Curves**



## Sensitivity

Sensitivity = $\frac{0.020}{0.133}$ × 0.08 pmol/mL =	12 fmol/mL
2 SD's of the Zero Standard =	0.020
Delta Optical Density (0-0.08 pmol/mL)	0 = 0.133
Mean OD for Standard #6 =	$0.403 \pm 0.009$
Mean OD for Bo =	$0.536\pm0.010$
Acetylated Version	

Constituents: PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4,

# FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC APPLICATIONS

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