

DESCRIPTION

Specificity	Detects cAMP. In a competition binding assay, this antibody does not cross-react with ATP, CTP, GTP, AMP, GMP, cGMP, or cUMP.
Source	Monoclonal Mouse IgG ₁ Clone # 250532
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Thryoglobulin-coupled cAMP
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

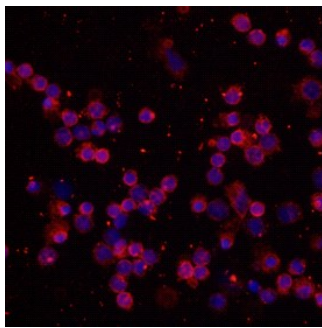
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



cAMP in Human PBMCs. cAMP was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using 10 µg/mL Mouse Anti-cAMP Monoclonal Antibody (Catalog # MAB2146) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

cAMP is a cyclic nucleotide generated from ATP by the activity of adenylate cyclase. It is a ubiquitous cytoplasmic second messenger important in many signal transduction pathways.