

# CoraLite® Plus 488-conjugated PRKAR2A Monoclonal antibody

Catalog Number: **CL488-67751**

## Basic Information

**Catalog Number:**

CL488-67751

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG29893

**GenBank Accession Number:**

BC002763

**GeneID (NCBI):**

5576

**UNIPROT ID:**

P13861

**Full Name:**

protein kinase, cAMP-dependent,  
regulatory, type II, alpha

**Calculated MW:**

43 kDa

**Observed MW:**

50 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1B2B3

**Recommended Dilutions:**

IF/ICC 1:50-1:500

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC, FC (Intra)

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

IF/ICC : HeLa cells,

## Background Information

The effects of cAMP in most tissues and cell types are mainly modulated via protein kinase A, a heterotetrameric protein complex consisting of two regulatory and two catalytic subunits. The regulatory subunit of cAMP-dependent protein kinase (PRKAR2A) is one of the regulatory subunits and the gene is located on chromosome region 3p21.3-p21.2. The expression of PRKAR2A is tightly regulated during spermatogenesis, a significant increase in expression of this gene was also found in the human myometrium during pregnancy.

## Storage

**Storage:**

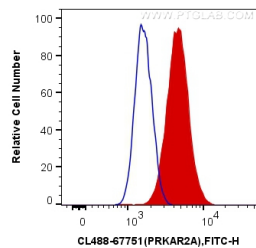
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

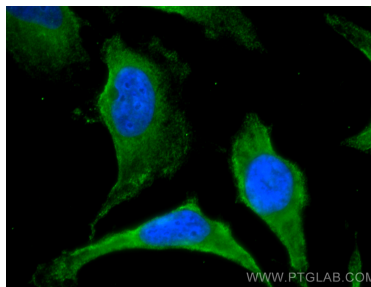
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



1X10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human PRKAR2A (CL488-67751, Clone:1B2B3) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CoraLite® Plus 488 PRKAR2A antibody (CL488-67751, Clone: 1B2B3 ) at dilution of 1:200.