

# CoraLite® Plus 488-conjugated P27; KIP1 Monoclonal antibody

Catalog Number: **CL488-67355**

## Basic Information

**Catalog Number:**

CL488-67355

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG14634

**GenBank Accession Number:**

BC001971

**GeneID (NCBI):**

1027

**UNIPROT ID:**

P46527

**Full Name:**cyclin-dependent kinase inhibitor 1B  
(p27, Kip1)**Calculated MW:**

198 aa, 22 kDa

**Observed MW:**

27 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

3F12C10

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

FC (Intra)

**Species Specificity:**

human, mouse, rat

## Background Information

DKN1B, also named as P27 or KIP1, is a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. P27 binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controlling cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. Downregulation of P27 has been implicated in the progression of several malignancies, including lung cancer, hepatocellular carcinoma, salivary cancer, oral squamous cell carcinomas, and gastric cancer.

## Storage

**Storage:**

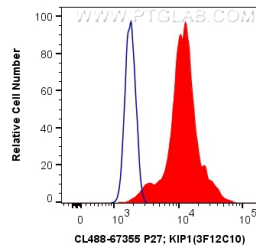
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**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 P27; KIP1 (CL488-67355, Clone:3F12C10) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).