

# CoraLite® Plus 488-conjugated CKM-Specific Monoclonal antibody

Catalog Number: **CL488-60177**

## Basic Information

**Catalog Number:**

CL488-60177

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2a

**GenBank Accession Number:**

BC007462

**GeneID (NCBI):**

1158

**UNIPROT ID:**

P06732

**Full Name:**

creatine kinase, muscle

**Calculated MW:**

43 kDa

**Observed MW:**

43 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

2G3F6

**Recommended Dilutions:**

IF/ICC 1:50-1:500

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

IF/ICC : C2C12 cells,

## Background Information

CKM, also named as CKMM and M-CK, is a member of the ATP:guanido phosphotransferase protein family. It is a cytoplasmic enzyme involved in energy homeostasis and is an important serum marker for myocardial infarction. CKM reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in striated muscle as well as in other tissues, and as a heterodimer with a similar brain isozyme in heart. CK isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa. CK MB consists of a dimer of nonidentical chains. With MM being the major form in skeletal muscle and myocardium, MB existing in myocardium, and BB existing in many tissues, especially brain.

## Storage

**Storage:**

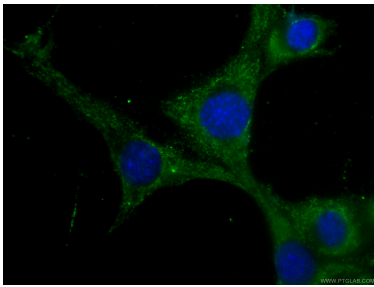
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**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



Immunofluorescent analysis of (-20°C Ethanol) fixed C2C12 cells using CL488-60177 (CKM-Specific antibody) at dilution of 1:100.