

# CoraLite® Plus 488-conjugated HSP27 Monoclonal antibody

Catalog Number: **CL488-66767**

## Basic Information

Catalog Number:

**CL488-66767**

Size:

**1000 µg/ml**

Source:

**Mouse**

Isotype:

**IgG1**

Immunogen Catalog Number:

**AG27859**

GenBank Accession Number:

**BC012768**

GeneID (NCBI):

**3315**

UNIPROT ID:

**P04792**

Full Name:

**heat shock 27kDa protein 1**

Calculated MW:

**19-23 kDa**

Observed MW:

**27 kDa**

Purification Method:

**Protein G purification**

CloneNo.:

**3E7A1**

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**

Positive Controls:

**IF/ICC : MCF-7 cells,**

## Background Information

HSPB1, also known as heat shock protein 27 (Hsp27), belongs to the small heat shock protein family which is induced in response to environmental challenges or/and developmental transitions. It is also an anti-apoptotic protein that plays crucial roles in tumorigenesis and cell survival and is reported to be an independent prognosis marker for cancer. Recently HSPB1 has been found to be a valuable marker for melanoma. In addition to the predicted 27 kDa, an extra 50-55 kDa representing dimeric form of HSPB1 may also be observed (21353161).

## Storage

Storage:

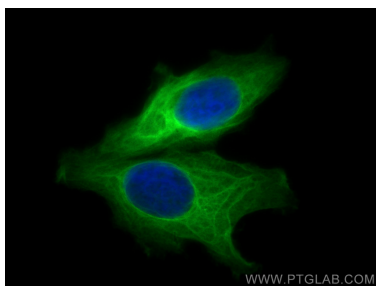
**Store at -20°C. Avoid exposure to light. Stable for one year after shipment.**

Storage Buffer:

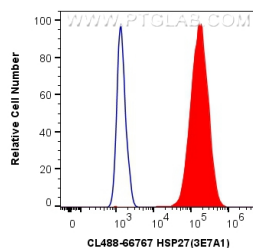
**PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.**

**Aliquoting is unnecessary for -20°C storage**

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CoraLite® Plus 488 HSP27 antibody (CL488-66767, Clone: 3E7A1) at dilution of 1:200.



1X10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human HSP27 (CL488-66767, Clone:3E7A1) (red), or 0.4 ug CoraLite® Plus 488 Mouse IgG1 Isotype Control (MOPC-21) (CL488-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).