

# CoraLite® Plus 488-conjugated HSF1 Monoclonal antibody

Catalog Number: **CL488-67189**

## Basic Information

**Catalog Number:**

CL488-67189

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG29061

**GenBank Accession Number:**

BC014638

**GeneID (NCBI):**

3297

**UNIPROT ID:**

Q00613

**Full Name:**

heat shock transcription factor 1

**Calculated MW:**

529 aa, 57 kDa

**Observed MW:**

68-80 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1F10A5

**Recommended Dilutions:**

IF/ICC 1:50-1:500

**Excitation/Emission maxima****wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC

**Species Specificity:**

Human

**Positive Controls:**

IF/ICC : HepG2 cells,

## Background Information

HSF1 belongs to heat-shock transcription factors that activate heat-shock response genes under conditions of heat or other stresses. Also, HSF1 has been linked with oogenesis, spermatogenesis, and placental development. It can activate AKT and inactivate JNK and CASP3 to protect cardiomyocytes from death. And it has a role in the regulation of life span and establishes a role for SIRT1 in protein homeostasis and heat-shock response. The calculated molecular weight of HSF1 is 57 kDa, but HSF1 migrates at approximately 80 kDa which likely represents different phosphorylation states (PMID: 18434628).

## Storage

**Storage:**

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

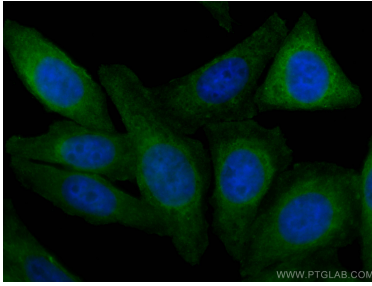
**Storage Buffer:**

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

Aliquoting is unnecessary for -20°C storage

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite® Plus 488-conjugated HSF1 antibody (CL488-67189, Clone: 1F10A5 ) at dilution of 1:100.