

# CoraLite®594-conjugated Sestrin 2 Monoclonal antibody

Catalog Number: CL594-66297

Featured Product

## Basic Information

**Catalog Number:**

CL594-66297

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG20638

**GenBank Accession Number:**

BC013304

**GeneID (NCBI):**

83667

**UNIPROT ID:**

P58004

**Full Name:**

sestrin 2

**Calculated MW:**

54 kDa

**Observed MW:**

54 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1A1A4

**Recommended Dilutions:**

IF/ICC 1:50-1:500

**Excitation/Emission maxima wavelengths:**

588 nm / 604 nm

## Applications

**Tested Applications:**

IF/ICC

**Species Specificity:**

human, pig, rat

**Positive Controls:**

IF/ICC : HeLa cells,

## Background Information

Sestrins, including sestrin-1 (PA26), sestrin-2 (Hi95), and sestrin-3, are 48 to 65 kDa cystein sulfinyl reductases and they modulate peroxide signaling and antioxidant defense. These proteins selectively reduce or repair hyperoxidized forms of typical 2-Cys peroxiredoxins within eukaryotes. Expression of these proteins is regulated by p53, a tumor suppressor protein. Sestrin 2 is implicated in the regulation of cell survival, in cellular responses to different stress conditions, and also acts as a positive regulator of autophagy. Sestrin 2 is approximately a 57.6kDa protein (480 amino acids).

## Storage

**Storage:**

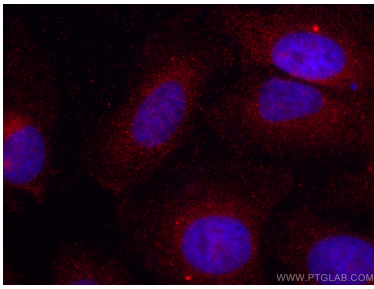
Store at -20°C. Avoid exposure to light.

**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 HeLa cells using CoraLite®594 Sestrin 2 antibody (CL594-66297, Clone: 1A1A4 ) at dilution of 1:100.