

For Research Use Only



CoraLite® Plus 488-conjugated Sestrin 2 Monoclonal antibody

Catalog Number: **CL488-66297**

Featured Product

Basic Information

Catalog Number:

CL488-66297

GenBank Accession Number:

BC013304

Purification Method:

Protein G purification

Size:

100ul , Concentration: 1000 µg/ml by Nanodrop;

GeneID (NCBI):

83667

CloneNo.:

1A1A4

Source:

Mouse

UNIPROT ID:

P58004

Recommended Dilutions:

IF/ICC 1:50-1:500

Isotype:

IgG1

Full Name:

sestrin 2

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Immunogen Catalog Number:

AG20638

Calculated MW:

54 kDa

Observed MW:

54 kDa

Applications

Tested Applications:

IF/ICC, FC (Intra)

Positive Controls:

IF/ICC : HeLa cells,

Species Specificity:

human, rat, pig

Background Information

Sestrins, including sestrin-1 (PA26), sestrin-2 (Hi95), and sestrin-3, are 48 to 65 kDa cysteine 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. 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

For technical support and original validation data for this product please contact:

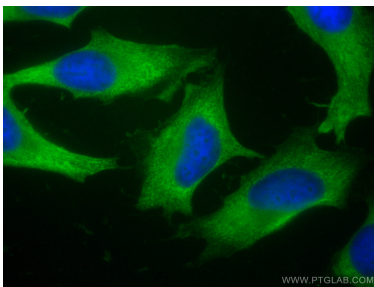
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

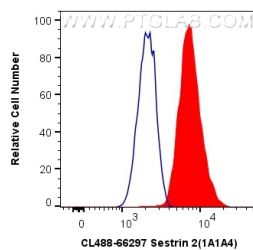
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CoraLite® Plus 488 Sestrin 2 antibody (CL488-66297, Clone: 1A1A4) at dilution of 1:200.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human Sestrin 2 (CL488-66297, Clone:1A1A4) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).