

For Research Use Only

CoraLite® Plus 488-conjugated LONP1 Recombinant antibody

Catalog Number:CL488-83552-3



Basic Information

Catalog Number: CL488-83552-3	GenBank Accession Number: BC000235	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 9361	CloneNo.: 240460E5
Source: Rabbit	UNIPROT ID: P36776	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG	Full Name: lon peptidase 1, mitochondrial	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG7196	Calculated MW: 106 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : HepG2 cells,
Species Specificity: human	

Background Information

LONP1(Lon protease homolog, mitochondrial) is also named as LONP, LONHS, HLON, LON, PRSS15, PIM1, MGC1498 and belongs to the peptidase S16 family. It seems to play a major role in the elimination of oxidatively modified proteins in the mitochondrial matrix(PMID:18021745). LONP1, also a nuclearly encoded and mitochondrially located stress-responsive protease, is involved in heme-mediated ALAS-1 turnover(PMID:21659532). It recognizes specific surface determinants or folds, initiates proteolysis at solvent-accessible sites, and generates unfolded polypeptides that are then progressively degraded(PMID:15870080). LONP1 has some isoforms with the MW of 106 kDa, 100 kDa and 86 kDa.

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:

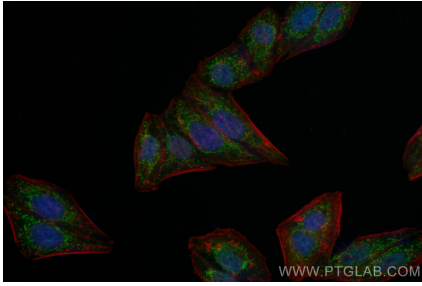
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite® Plus 488 LONP1 antibody (CL488-83552-3, Clone: 240460E5) at dilution of 1:200.