CoraLite® Plus 488-conjugated HSP60 Monoclonal antibody

Proteintech®
Antibodies | ELISA kits | Proteins
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Catalog Number:CL488-66041   **Featured Product**   **1 Publications**

Basic Information

Catalog Number:
CL488-66041

Concentration:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG7848

GenBank Accession Number:
BC003030

GeneID (NCBI):
3329

UNIPROT ID:
P10809

Full Name:
heat shock 60kDa protein 1 (chaperonin)

Calculated MW:
61 kDa

Observed MW:
60 kDa

Purification Method:
Protein G purification

CloneNo.:
2F10E7

Recommended Dilutions:
IF/ICC: 1:50-1:500
FC (Intra): 1.00 ug per 10^6 cells in a 100 μl suspension

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Cited Applications:
RIP

Species Specificity:
human, mouse, rat

Cited Species:
human

Positive Controls:

IF/ICC : HepG2 cells,

FC (Intra) : HepG2 cells,

Background Information

HSPD1, also known as HSP60, belongs to the chaperonin family and acts as a chaperone to enhance cell survival under physiological stresses. Hsp60 has been shown to be connected with many aspects of cell functions such as protein folding and assembling of polypeptide chains in mitochondria. Recently it has been reported that HSP60 is associated with apoptosis or inhibition of cancer cell growth. (21822415)

Notable Publications

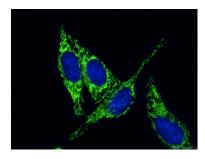| Author	Pubmed ID	Journal	Application
Lei Yang	39826668	Cancer Lett	RIP

Storage

Storage:
Store at -20℃. Avoid exposure to light. Stable for one year after shipment.
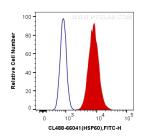**Storage Buffer:**
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

Selected Validation Data

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CL488-66041 (HSP60 antibody) at dilution of 1:50.

1X10^6 HepG2 cells were intracellularly stained with 1 ug CoraLite® Plus 488 Anti-Human HSP60 (CL488-66041, Clone:2F10E7) (red), or 1 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).