

For Research Use Only

CoraLite®594-conjugated SAMHD1 Polyclonal antibody



Catalog Number:CL594-12586

Featured Product

Basic Information

Catalog Number:

CL594-12586

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3287

GenBank Accession Number:

BC036450

GeneID (NCBI):

25939

UNIPROT ID:

Q9Y3Z3

Full Name:

SAM domain and HD domain 1

Calculated MW:

626 aa, 72 kDa

Observed MW:

64-72 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF 1:200-1:800

Excitation/Emission maxima
wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

FC (Intra), IF/ICC

Species Specificity:

human, mouse, rat

Positive Controls:

IF : HepG2 cells, A549 cells

Background Information

SAMHD1, highly expressed by monocytes and monocyte-derived dendritic cells and by monocyte-derived macrophages at a lower extent, is reported as an HIV-1 restriction factor that inhibits the early step of the HIV-1 life cycle. Vpx (virus-like particles containing viral protein X) could overcome this block by interacting with SAMHD1, inducing proteasome-dependent degradation of SAMHD1. Mutations in SAMHD1 cause Aicardi-Goutières syndrome, a genetic encephalopathy with a presumed immune pathogenesis. Three alternatively spliced transcripts encoding different isoforms have been described.

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:

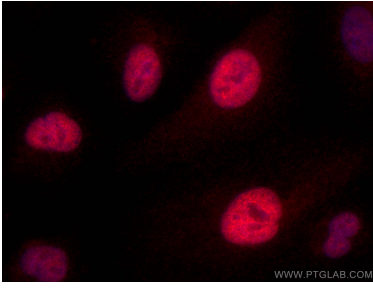
T: 4006900926

E: Proteintech-CN@ptglab.com

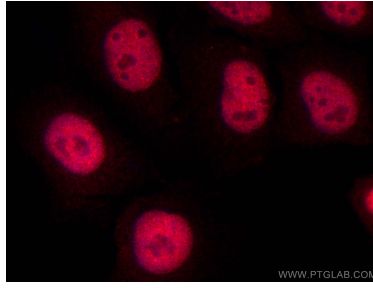
W: ptgcn.com

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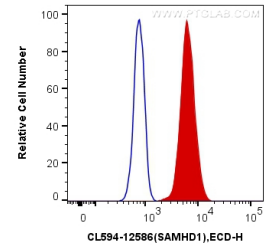
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A549 cells using CoraLite@594 SAMHD1 antibody (CL594-12586) at dilution of 1:400.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite@594 SAMHD1 antibody (CL594-12586) at dilution of 1:400.



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug CoraLite@594 Anti-Human SAMHD1 (CL594-12586) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).