

For Research Use Only

Multi-rAb® SAMHD1 Multi-Recombinant antibody

Catalog Number: RMX00060



Basic Information

Catalog Number:

RMX00060

Source:

Rabbit

Isotype:

IgG

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:

72 kDa

Purification Method:

N/A

Recommended Dilutions:

WB: 1:5000-1:50000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:500-1:2000

IF/ICC: 1:250-1:1000

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Species Specificity:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HeLa cells, K-562 cells

IP: K-562 cells, HeLa cells

IHC: human placenta tissue,

IF/ICC: HepG2 cells,

FC (Intra): K-562 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 presumed immune pathogenesis. Three alternatively spliced transcripts encoding different isoforms have been described.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol.

Aliquoting is unnecessary for -20°C storage

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

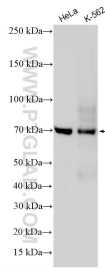
T: 4006900926

E: Proteintech-CN@ptglab.com

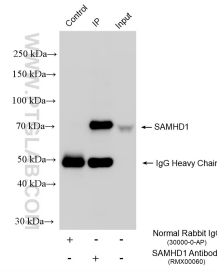
W: ptgcn.com

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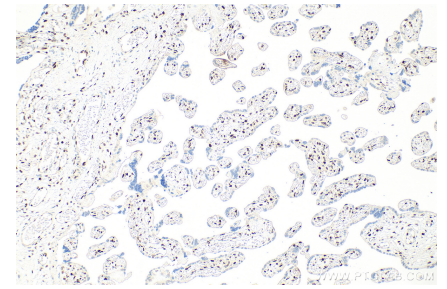
Selected Validation Data



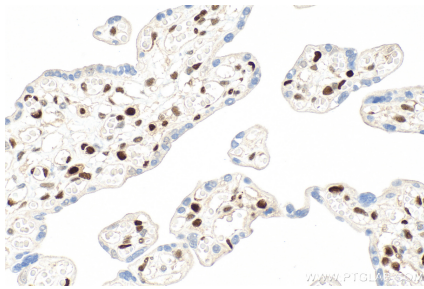
Various lysates were subjected to SDS PAGE followed by western blot with RMX00060 (SAMHD1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



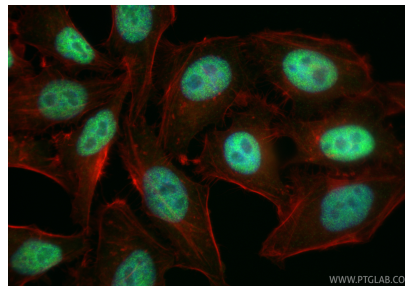
IP result of anti-SAMHD1 (IP:RMX00060, 4ug; Detection:RMX00060 1:6000) with K-562 cells lysate 2440 ug.



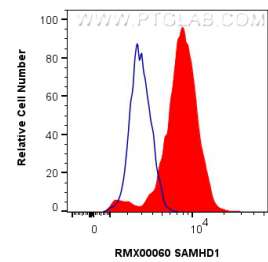
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using RMX00060 (SAMHD1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using RMX00060 (SAMHD1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SAMHD1 antibody (RMX00060) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



1×10^6 K-562 cells were intracellularly stained with 0.25 ug Multi-rAb@ SAMHD1 Multi-Recombinant antibody (RMX00060) and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).