

For Research Use Only

# SAMHD1 Recombinant monoclonal antibody

Catalog Number: 86798-1-RR



## Basic Information

<b>Catalog Number:</b> 86798-1-RR	<b>GenBank Accession Number:</b> BC036450	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 25939	<b>CloneNo.:</b> 251815H5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9Y3Z3	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IF/ICC: 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> SAM domain and HD domain 1	
<b>Immunogen Catalog Number:</b> AG3287	<b>Calculated MW:</b> 626 aa, 72 kDa	
	<b>Observed MW:</b> 64-72 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, HEK-293 cells, K-562 cells, HeLa cells
<b>Species Specificity:</b> human	<b>IF/ICC :</b> HepG2 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, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

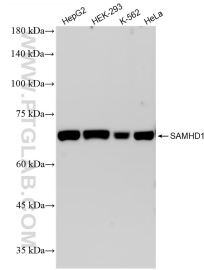
For technical support and original validation data for this product please contact:

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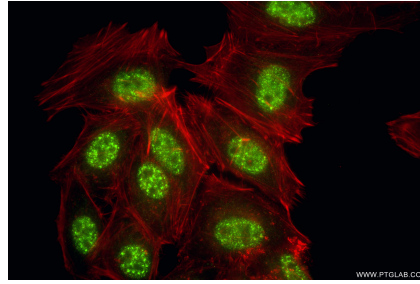
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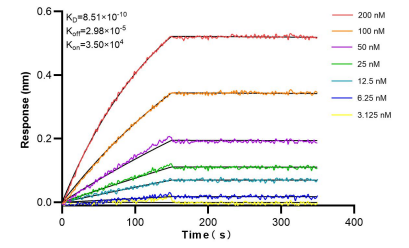
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86798-1-RR (SAMHD1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SAMHD1 antibody (86798-1-RR, Clone: 251815H5) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Bi-layer interferometry (BLI) kinetic assays of 86798-1-RR against Human SAMHD1 were performed. The affinity constant is 0.851 nM.