

DATASHEET

SAMHD1 Rabbit Polyclonal Antibody

CAT. NO. APA13686

KEY FEATURES

Target	SAMHD1	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC, IP	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Protein that acts both as a host restriction factor involved in defense response to virus and as a regulator of DNA end resection at stalled replication forks . Has deoxynucleoside triphosphate (dNTPase) activity, which is required to restrict infection by viruses, such as HIV-1: dNTPase activity reduces cellular dNTP levels to levels too low for retroviral reverse transcription to occur, blocking early-stage virus replication in dendritic and other myeloid cells . Likewise, suppresses LINE-1 retrotransposon activity . Not able to restrict infection by HIV-2 virus; because restriction activity is counteracted by HIV-2 viral protein Vpx . In addition to virus restriction, dNTPase activity acts as a regulator of DNA precursor pools by regulating dNTP pools .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:200
IP	1:10 - 1:50

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to SAMHD1
Specificity	Recognizes endogenous levels of SAMHD1 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human SAMHD1
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 63; Observed: 72 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	MOP5; Deoxynucleoside triphosphate triphosphohydrolase SAMHD1; dNTPase; Dendritic cell-derived IFNG-induced protein; DCIP; Monocyte protein 5; MOP-5; SAM domain and HD domain-containing protein 1
Gene Symbol	SAMHD1
Entrez Gene	25939(Human); 56045(Mouse)
SwissProt	Q9Y3Z3(Human); Q60710(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

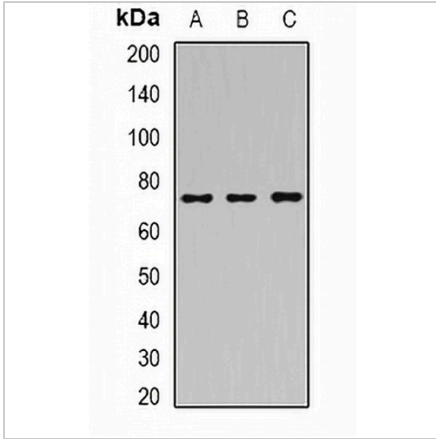
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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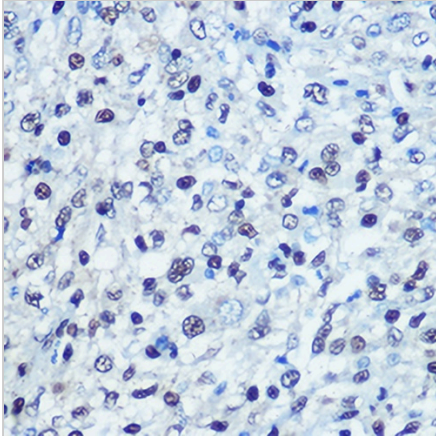
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DATA



Western blot analysis of SAMHD1 expression in Hela (A), MCF7 (B), mouse spleen (C) whole cell lysates. (Predicted band size: 63; 68; 72 kD; Observed band size: 72 kD)



Immunohistochemical analysis of SAMHD1 staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.