

Rabbit anti-Human, Mouse SAMHD1 Polyclonal Antibody | anti-SAMHD1 antibody

SAMHD1 (phospho Thr592) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40862	Rabbit	Human, Mouse	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

SAMHD1; Polyclonal Antibody; SAMHD1 (phospho Thr592) Antibody; SAM domain and HD domain 1; DCIP; CHBL2; HDDC1; MOP-5; SBBI88; anti-SAMHD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-SAMHD1 antibody is human and mouse reactive. Phospho-SAMHD1 antibody will only detect the phosphorylated form of SAMHD1.
Purity/Purification	Affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	626
Applicable Applications for anti-SAMHD1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	Phospho-SAMHD1 antibody was raised against a phosphorylated 18 amino acid peptide near the carboxy terminus of human Phospho-SAMHD1 surrounding T592.
Buffer	SAMHD1 (phospho Thr592) antibody is supplied in PBS containing 0.02% sodium azide.
Species	Human
Preparation and Storage	Store at 4 degree C for three months and -20 degree C, stable for up to one year.

IMAGES



IF (Immunofluorescence)

Immunofluorescence of phosphoSAMHD1 in human brain tissue with phosphoSAMHD1 antibody at 20 µg/mL.



IHC (Immunohistochemistry)

Immunohistochemistry of SAMHD1 (phospho Thr592) in human brain tissue with SAMHD1 (phospho Thr592) antibody at 2.5 µg/mL.



WB (Western Blot)

Western blot analysis of SAMHD1 (phospho Thr592) in 293 cells transfected with (A) empty expression vector, (B) wild-type SAMHD1, (C) SAMHD1 (T592A) and (D) SAMHD1 (T592E) with SAMHD1 (phospho Thr592) antibody at 1 μg/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-SAMHD1 antibody	The SAM domain and HD domain 1 (SAMHD1) protein is upregulated in response to viral infection and is thought to play a role in innate immunity (1). SAMHD1 blocks the infection of HIV-1 and SIVdeltaVpx before reverse transcription in macrophages and dendritic cells (2), and this restriction is regulated by phosphorylation of SAMHD1 (3). Mutations in this gene have been associated with Aicardi-Goutieres syndrome (1).
Product Categories/Family for anti-SAMHD1 antibody	Immunology; Innate Immunity
References	1. Rice GI, Bond J, Asipu A, et al. Mutations involved in Aicardi-Goutieres syndrome implicate SAMHD1 as regulator of the innate immune system. Nat. Genet. 2009; 41:829-32. 2. Hrecka K, Hao C, Gierszewska M, et al. Vpx relieves the inhibition of HIV-1 infection of macrophages mediated by the SAMHD1 protein. Nature 2011; 474:654-7. 3. Welbourn S, Dutta SM, Semmes OJ, et al. Restriction of virus infection but not catalytic dNTPase activity is regulated by phosphorylation of SAMHD1. J. Virol. 2013; 87:11516-24.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38016914
NCBI GeneID	25939
NCBI Accession #	NP_056289
NCBI GenBank Nucleotide #	NM_015474.3
UniProt Accession #	Q9Y3Z3; Q5JXG8; Q8N491; Q9H004; Q9H005; Q9H3U9; B4E2A5; E1P5V2
Molecular Weight	69 kDa
NCBI Official Full Name	deoxynucleoside triphosphate triphosphohydrolase SAMHD1
NCBI Official Synonym Full Names	SAM and HD domain containing deoxynucleoside triphosphate triphosphohydrolase 1
NCBI Official Symbol	SAMHD1
NCBI Official Synonym Symbols	DCIP; CHBL2; HDDC1; MOP-5; SBB188
NCBI Protein Information	deoxynucleoside triphosphate triphosphohydrolase SAMHD1
UniProt Protein Name	Deoxynucleoside triphosphate triphosphohydrolase SAMHD1
UniProt Gene Name	SAMHD1
UniProt Synonym Gene Names	MOP5; dNTPase; DCIP; MOP-5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/samhd1-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/40862>