Rabbit anti-Human SAMHD1 Monoclonal Antibody | anti-SAMHD1 antibody

SAMHD1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA30402	**Rabbit**	**Human**	**Western Blot, Immunocytochemistry, Immunohistochemistry, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

SAMHD1; Monoclonal Antibody; SAMHD1 Antibody; CHBL2 antibody; DCIP antibody; Dendritic cell derived IFNG induced protein antibody; Dendritic cell-derived IFNG-induced protein antibody; Deoxynucleoside triphosphate triphosphohydrolase SAMHD1 antibody; dNTPase antibody; HD domain containing 1 antibody; HDDC1 antibody; Mg11 antibody; Monocyte protein 5 antibody; MOP 5 antibody; MOP-5 antibody; MOP5 antibody; OTTHUMP00000030889 antibody; SAM domain and HD domain 1 antibody; SAM domain and HD domain containing protein 1 antibody; SAM domain and HD domain-containing protein 1 antibody; SAMH1_HUMAN antibody; Samhd1 antibody; SBBI88 antibody; anti-SAMHD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Clone Number	JU56-04
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-SAMHD1 antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 ICC: 1:100-1:500 FC/FACS: 1:50-1:100
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

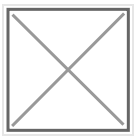
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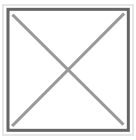
FCM (Flow Cytometry)
Flow cytometric analysis of K562 cells with SAMHD1 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).



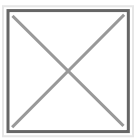
ICC (Immunocytochemistry)
ICC staining SAMHD1 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



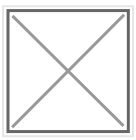
ICC (Immunocytochemistry)
ICC staining SAMHD1 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC (Immunocytochemistry)
ICC staining SAMHD1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-SAMHD1 antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-SAMHD1 antibody. Counter stained with hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-SAMHD1 antibody	SAM domain and HD domain-containing protein 1 is a protein that in humans is encoded by the SAMHD1 gene. SAMHD1 is a cellular enzyme, responsible for blocking replication of HIV in dendritic cells, macrophages and monocytes. It is an enzyme that exhibits phosphohydrolase activity, converting deoxynucleoside triphosphates (dNTPs) to inorganic phosphate (iPPP) and a 2'-deoxynucleoside (i.e. deoxynucleosides without a phosphate group). In doing so, SAMHD1 depletes the pool of dNTPs available to a reverse transcriptase for viral cDNA synthesis and thus prevents viral replication. SAMHD1 has also shown nuclease activity. Although a ribonuclease activity was described to be required for HIV-1 restriction, recent data confirmed that SAMHD1-mediated HIV-1 restriction in cells does not involve ribonuclease activity.
Product Categories/Family for anti-SAMHD1 antibody	Total protein Ab

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	Predicted: 65; 69 kDa Observed: 62 kDa
NCBI Official Full Name	deoxynucleoside triphosphate triphosphohydrolase SAMHD1
NCBI Official Synonym Full Names	SAM domain and HD domain 1
NCBI Official Symbol	SAMHD1
NCBI Official Synonym Symbols	DCIP; CHBL2; HDDC1; MOP-5; SBBI88
NCBI Protein Information	deoxynucleoside triphosphate triphosphohydrolase SAMHD1; dNTPase; monocyte protein 5; dendritic cell-derived IFNG-induced protein; SAM domain and HD domain-containing protein 1
UniProt Protein Name	Deoxynucleoside triphosphate triphosphohydrolase SAMHD1
UniProt Gene Name	**SAMHD1**
UniProt Synonym Gene Names	MOP5; dNTPase; DCIP; MOP-5
UniProt Entry Name	SAMH1_HUMAN

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/monoclonal/samhd1-antibody-clone-ju56-04-western-blot-immunocytochemistry-immunohistochemistry-flow-cytometry-elisa/30402