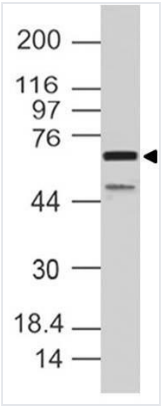
SAMHD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SAMHD1, Polyclonal Antibody
Full Product Name	Polyclonal Antibody to SAMHD1
Product Gene Name	anti-SAMHD1 antibody
Product Synonym Names	SAMHD1; MOP5; Dendritic cell-derived IFNG-induced protein; MOP-5, Monocyte protein 5; SAM domain and HD domain-containing protein 1; Antibody to SAMHD1; Anti-SAMHD1 Antibody; SAMHD1 Antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	25 ug in 50 ul/100 ug in 200 ul PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Purity/Purification	Purified Protein A Chromatography
Preparation and Storage	Store the antibody at 4 degree C, stable for 6 months. For long-term storage, store at -20 degree C. Avoid repeated freeze and thaw cycles.
Molecular Weight	68,122 Da
OMIM	AF228421 mRNA
3D Structure	ModBase 3D Structure for Q9Y3Z3
Immunogen Information	A partial length recombinant SAMHD1 protein (amino acids 380-520) was used as the immunogen for this antibody.
Antigen	SAMHD1
Product Categories/Family for anti-SAMHD1 antibody	Antibodies; Immunology
Applications Tested/Suitable for anti-SAMHD1 antibody	Western Blot (WB)
Application Notes for anti-SAMHD1 antibody	WB: 2-4 ug/ml
Related Product Information for anti-SAMHD1 antibody	MBS668775 is an antibody targeting SAMHD1. Also known as Polyclonal Antibody to SAMHD1. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-SAMHD1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-SAMHD1 antibody
Fig-1: Western blot analysis of SAMHD1. Anti-SAMHD1 antibody (11-4052) was used at 4 ug/ml on Liver lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SAMHD1. It may not necessarily be applicable to this product.

NCBI GI #	22257047
NCBI GeneID	25939
NCBI Accession #	Q9Y3Z3.2
UniProt Primary Accession #	Q9Y3Z3
UniProt Secondary Accession #	Q5JXG8; Q8N491; Q9H004; Q9H005; Q9H3U9; B4E2A5; E1P5V2
UniProt Related Accession #	Q9Y3Z3
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; SBBI88
UniProt Protein Name	Deoxynucleoside triphosphate triphosphohydrolase SAMHD1
UniProt Synonym Protein Names	Dendritic cell-derived IFNG-induced protein; DCIP; Monocyte protein 5; MOP-5; SAM domain and HD domain-containing protein 1
Protein Family	Deoxynucleoside triphosphate triphosphohydrolase
UniProt Gene Name	SAMHD1
UniProt Synonym Gene Names	MOP5; dNTPase; DCIP; MOP-5
NCBI Protein Information	deoxynucleoside triphosphate triphosphohydrolase SAMHD1
NCBI Summary for SAMHD1	This gene may play a role in regulation of the innate immune response. The encoded protein is upregulated in response to viral infection and may be involved in mediation of tumor necrosis factor-alpha proinflammatory responses. Mutations in this gene have been associated with Aicardi-Goutieres syndrome. [provided by RefSeq, Mar 2010]

UniProt Comments for SAMHD1	SAMHD1: a protein induced by interferon gamma. Protein type: EC 3.1.4.- Chromosomal Location of Human Ortholog: 20q11.23 Cellular Component: nucleoplasm; nucleus; plasma membrane Molecular Function: dGTP binding; dGTPase activity; nucleic acid binding; protein binding; RNA binding; zinc ion binding Biological Process: dATP catabolic process; defense response to virus; dGTP catabolic process; protein homotetramerization; regulation of innate immune response Disease: Aicardi-goutieres Syndrome 5; Chilblain Lupus 2
Research Articles on SAMHD1	**1.** This study reviewed that Neurologic Phenotypes Associated with Mutations in SAMHD1 in patients with Aicardi-Goutieres Syndrome.
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