

## Rabbit anti-Human SAMHD1 Polyclonal Antibody | anti-SAMHD1 antibody

SAMHD1 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                              |
|-----------|--------|------------|-------------------------------------------|
| AAA243772 | Rabbit | Human      | Immunohistochemistry, Western Blot, ELISA |

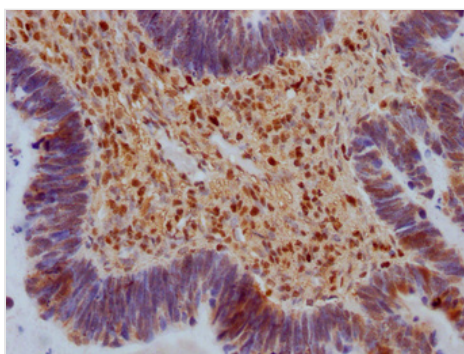
### PRODUCT SYNONYMS

SAMHD1; Polyclonal Antibody; SAMHD1 Antibody; Deoxynucleoside triphosphate triphosphohydrolase SAMHD1 (dNTPase) (EC 3.1.5.-) (Dendritic cell-derived IFNG-induced protein) (DCIP) (Monocyte protein 5) (MOP-5) (SAM domain and HD domain-containing protein 1); MOP5; anti-SAMHD1 antibody

### PRODUCT SPECIFICATIONS

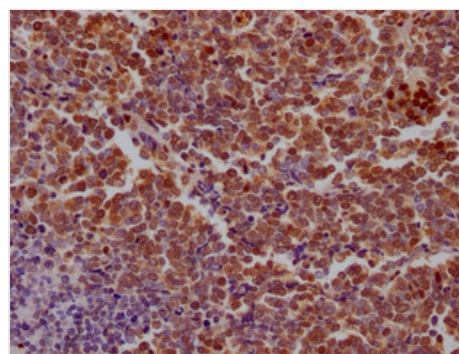
|                                                  |                                                                                             |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                      |
| Reactivity                                       | Human                                                                                       |
| Clonality                                        | Polyclonal                                                                                  |
| Isotype                                          | IgG                                                                                         |
| Purity/Purification                              | >95%, Antigen Affinity purified & Affinity purified                                         |
| Form/Format                                      | Liquid<br>Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH7.4   |
| Applicable Applications for anti-SAMHD1 antibody | IHC (Immunohistochemistry), WB (Western Blot), ELISA                                        |
| Conjugation                                      | Non-conjugated                                                                              |
| Immunogen                                        | Recombinant Human Deoxynucleoside triphosphate triphosphohydrolase SAMHD1 protein (1-314AA) |
| Preparation and Storage                          | Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.                 |

### IMAGES



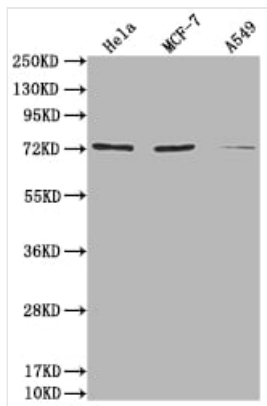
#### IHC (Immunohistochemistry)

IHC image diluted at 1:100 and staining in paraffin-embedded human ovarian cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a Goat anti-rabbit IgG labeled by HRP and visualized using 0.05% DAB.



#### IHC (Immunohistochemistry)

IHC image diluted at 1:100 and staining in paraffin-embedded human lung cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a Goat anti-rabbit IgG labeled by HRP and visualized using 0.05% DAB.



**WB (Western Blot)**  
 Western BlotPositive WB detected in: HeLa whole cell lysate, MCF-7 whole cell lysate, A549 whole cell lysateAll lanes: SAMHD1 antibody at 1:2000SecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 73, 64, 69 kDaObserved band size: 73 kDa

### ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SAMHD1 antibody | Host restriction nuclease involved in defense response to virus. Has dNTPase activity and reduces cellular dNTP levels to levels too low for retroviral reverse transcription to occur. Blocks early-stage virus replication in dendritic and other myeloid cells. Likewise, suppresses LINE-1 retrotransposon activity. May play a role in mediating proinflammatory responses to TNF-alpha signaling (PubMed:18546154, PubMed:19525956, PubMed:22056990, PubMed:24336198, PubMed:28229507). Has ribonuclease activity, acting on single-stranded RNA. This activity is essential for HIV-1 restriction (PubMed:25038827). |
| Product Categories/Family for anti-SAMHD1 antibody   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### 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<br>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; SBB188                                                                                                                                                |
| 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://www.aaabiotech.com/polyclonal/samhd1-antibody-immunohistochemistry-western-blot-elisa/243772>