

## Product datasheet for **CF502157**

### **SAMHD1 Mouse Monoclonal Antibody [Clone ID: OTI1A1]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI1A1
<b>Applications:</b>	FC, IF, IHC, WB
<b>Recommended Dilution:</b>	WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100
<b>Reactivity:</b>	Human, Rat, Monkey, Mouse
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2b
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human SAMHD1(NP_056289) produced in HEK293T cell.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	72 kDa
<b>Gene Name:</b>	SAM and HD domain containing deoxynucleoside triphosphate triphosphohydrolase 1
<b>Database Link:</b>	<a href="#">NP_056289</a> <a href="#">Entrez Gene 56045 Mouse</a> <a href="#">Entrez Gene 311580 Rat</a> <a href="#">Entrez Gene 709060 Monkey</a> <a href="#">Entrez Gene 25939 Human</a> <a href="#">Q9Y3Z3</a>



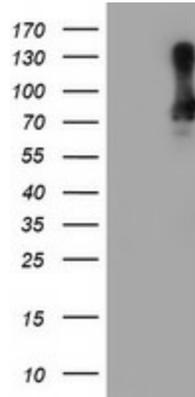
[View online »](#)

**Background:**

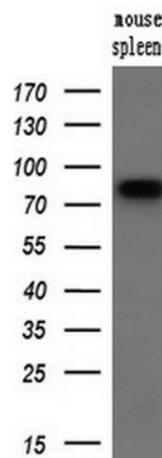
This gene may play a role in regulation of the innate immune response. The encoded protein is upregulated in response to viral infection and may be involved in mediation of tumor necrosis factor-alpha proinflammatory responses. Mutations in this gene have been associated with Aicardi-Goutieres syndrome. [provided by RefSeq]

**Synonyms:**

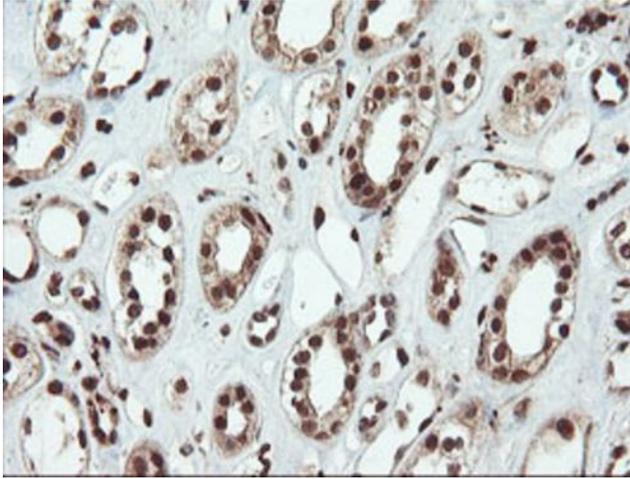
CHBL2; DCIP; HDDC1; MOP-5; SBBI88

**Product images:**


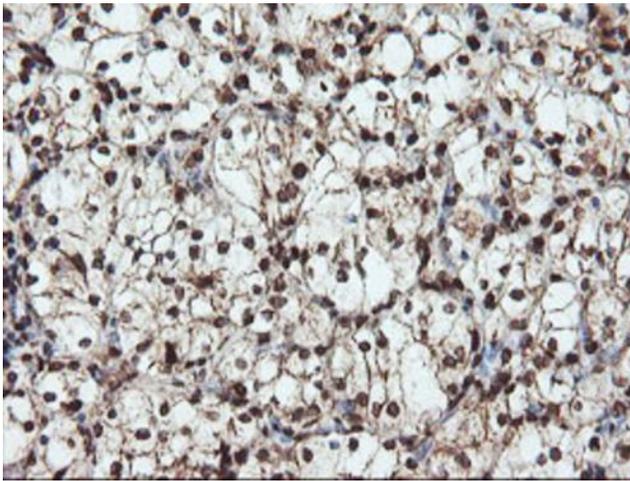
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SAMHD1 ([RC206013], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SAMHD1. Positive lysates [LY414526] (100ug) and [LC414526] (20ug) can be purchased separately from OriGene.



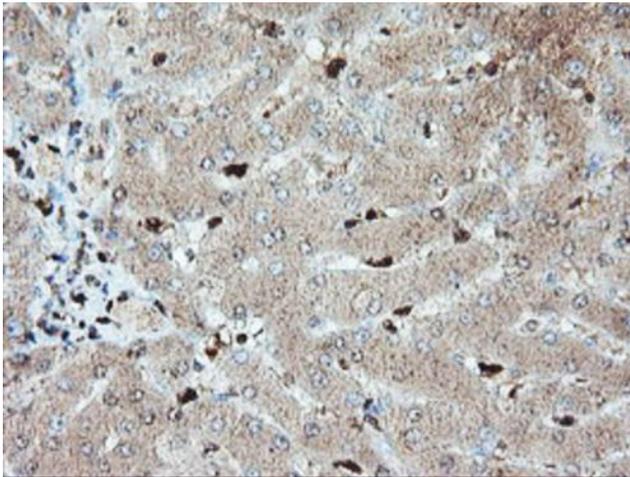
Western blot analysis of extracts (10ug) from a mouse tissue by using anti-SAMHD1 monoclonal antibody (1:200).



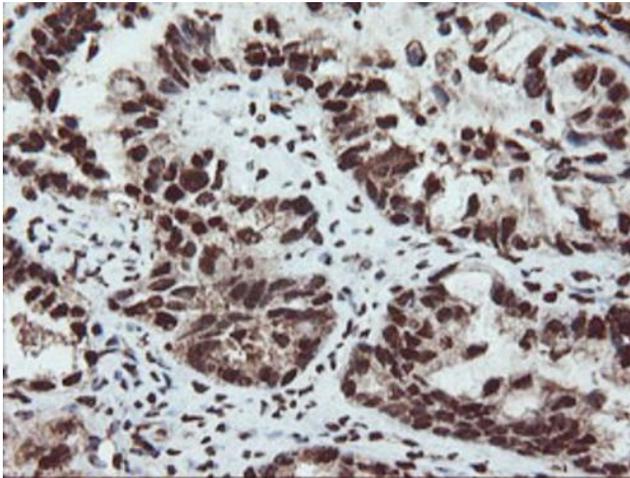
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-SAMHD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502157])



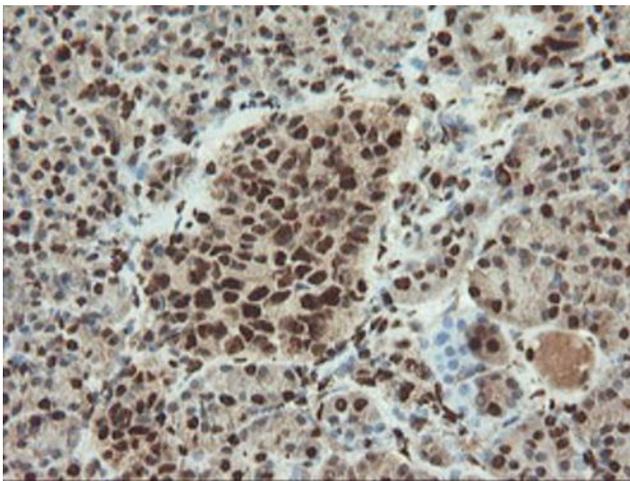
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-SAMHD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502157])



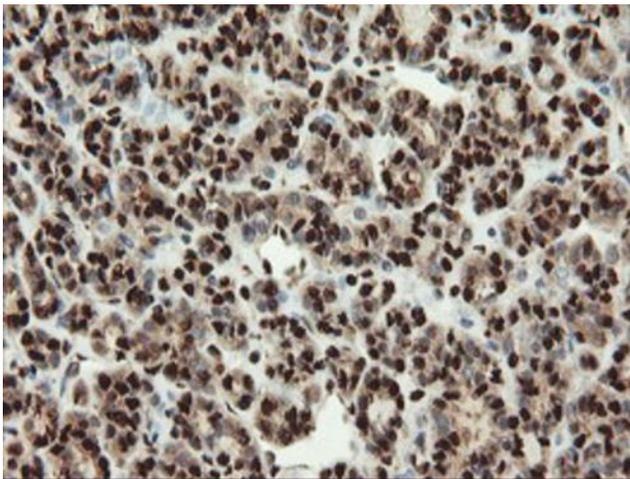
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-SAMHD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502157])



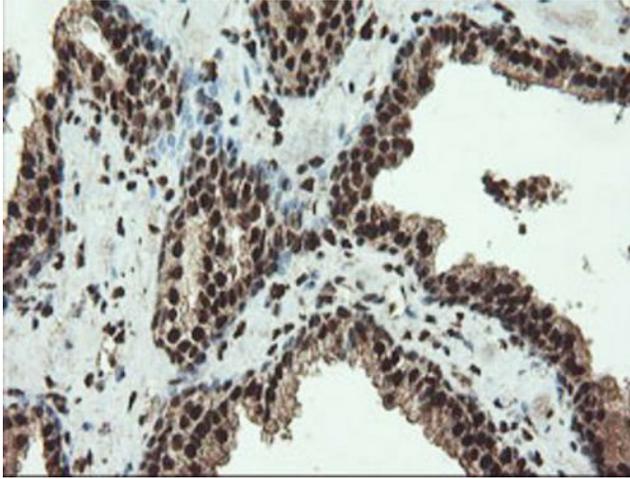
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-SAMHD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502157])



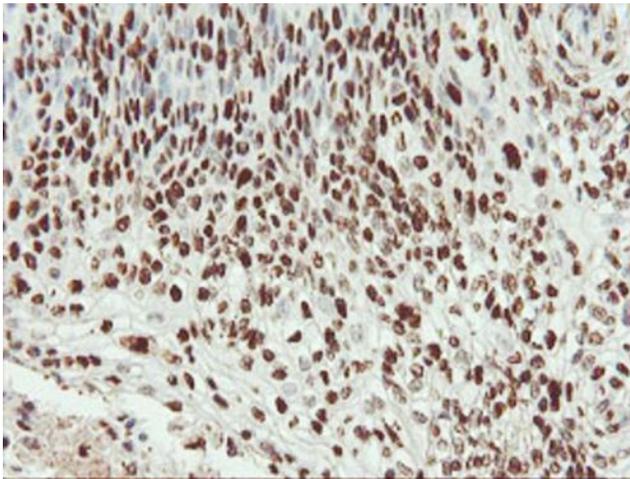
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-SAMHD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502157])



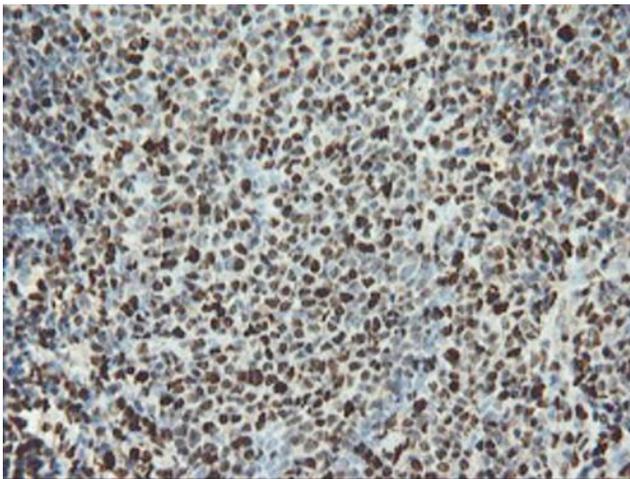
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-SAMHD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502157])



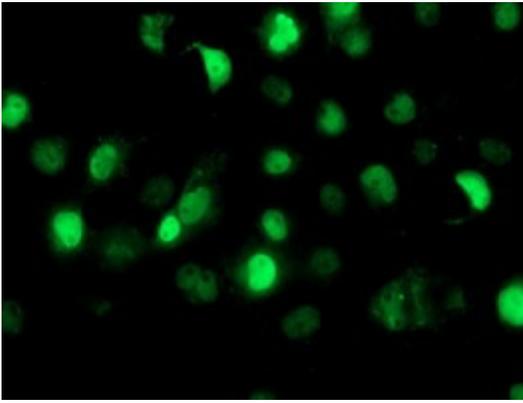
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-SAMHD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502157])



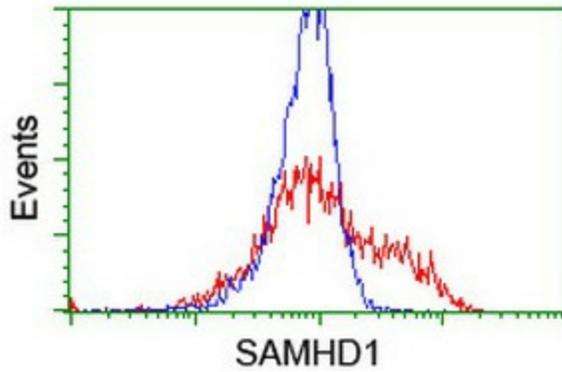
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-SAMHD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502157])



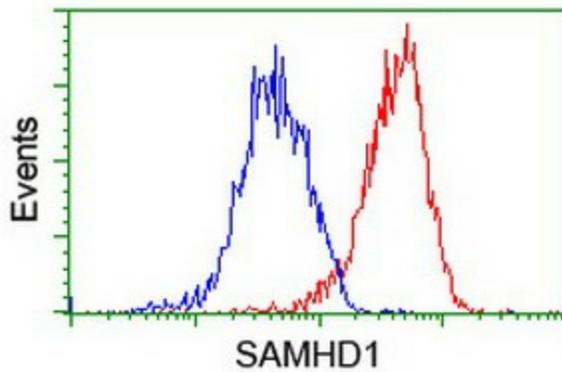
Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-SAMHD1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502157])



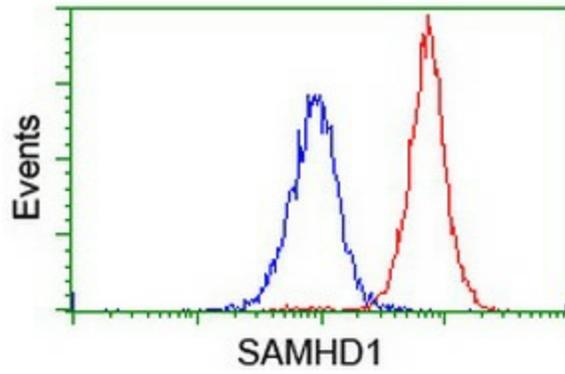
Anti-SAMHD1 mouse monoclonal antibody ([TA502157]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY SAMHD1 ([RC206013]).



HEK293T cells transfected with either [RC206013] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SAMHD1 antibody ([TA502157]), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-SAMHD1 antibody ([TA502157]), (Red), compared to a nonspecific negative control antibody, (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-SAMHD1 antibody (TA502157), (Red), compared to a nonspecific negative control antibody, (Blue).