

## **Human SAMHD1 Antibody**

Monoclonal Mouse IgG<sub>2B</sub> Clone # 883335

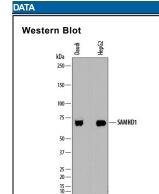
Catalog Number: MAB8120

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human SAMHD1 in ELISAs.		
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 883335		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human SAMHD1 His206-Arg339 Accession # Q9Y3Z3		
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.		

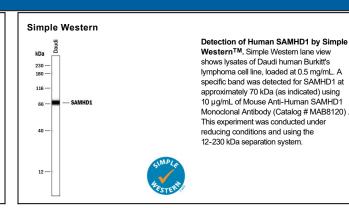
## APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Simple Western	10 μg/mL	See Below



**Detection of Human SAMHD1 by Western** Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line and HepG2 human hepatocellular carcinoma cell line PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human SAMHD1 Monoclonal Antibody (Catalog # MAB8120) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for SAMHD1 at approximately 72 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



## PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

Human SAM (Sterile Alpha Motif) domain and HD (His/Asp motif-containing phosphohydrolase) domain-containing 1 (SAMHD1), also known as DCIP (dendritic cell IFN-g-induced protein) or MOP5 (monocyte protein 5) is a 70-80 kDa, 626 amino acid (aa) nuclear protein that acts as a dGTP-regulated deoxynucleotide triphosphohydrolase. It restricts HIV replication by binding nucleic acids. SAMHD-1 expression is induced by TNF-a in myeloid lineage cells and lung fibroblasts. Human SAMHD1 mutations are linked to Aicardi-Goutieres Syndrome, which is characterized by symptoms mimicking viral infection. Human SAMHD1 isoforms of 602, 591, and 556 aa lack aa 113-136, 502-536, and 285-354, respectively. The 591 and 556 aa forms are catalytically inactive. Within the region used as an immunogen, human SAMHD1 shares 85% aa sequence identity with mouse and rat SAMHD1.

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