Human SAMHD1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 883335

Catalog Number: MAB8120

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SAMHD1 in ELISAs.
Source	Monoclonal Mouse IgG_{2B} 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 as a 0.2 μm filtered solution in PBS.

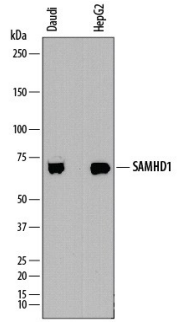
APPLICATIONS

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

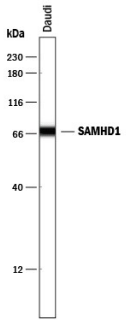
DATA

Western Blot



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.

Simple Western



Detection of Human SAMHD1 by Simple Western™. Simple Western lane view shows lysates of Daudi human Burkitt's lymphoma cell line, loaded at 0.5 mg/mL. A specific band was detected for SAMHD1 at approximately 70 kDa (as indicated) using 10 µg/mL of Mouse Anti-Human SAMHD1 Monoclonal Antibody (Catalog # MAB8120) . This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

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.

BACKGROUND

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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