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Datasheet for 600-401-ED7

SAMHD1 Antibody

Overview

Description:	Anti-SAMHD1 (RABBIT) Antibody - 600-401-ED7
Item No.:	600-401-ED7
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The SAM domain and HD domain 1 (SAMHD1) protein is upregulated in response to viral infection and is thought to play a role in innate immunity (1). SAMHD1 blocks the infection of HIV-1 and SIVdeltaVpx before reverse transcription in macrophages and dendritic cells (2), and this restriction is regulated by phosphorylation of SAMHD1 (3). Mutations in this gene have been associated with Aicardi-Goutieres syndrome (1).
Synonyms:	SAM domain and HD domain 1, DCIP, CHBL2, HDDC1, MOP-5, SBBI88
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SAMHD1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SAMHD1 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the C-terminus of human SAMHD1.
Purity/Specificity:	Anti-SAMHD1 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. SAMHD1 antibody is human and mouse reactive.
Relevant Links:	• UniProtKB - Q9Y3Z3

- GeneID - 25939
- NCBI - NP_056289

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-SAMHD1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 72 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1-2 µg/mL

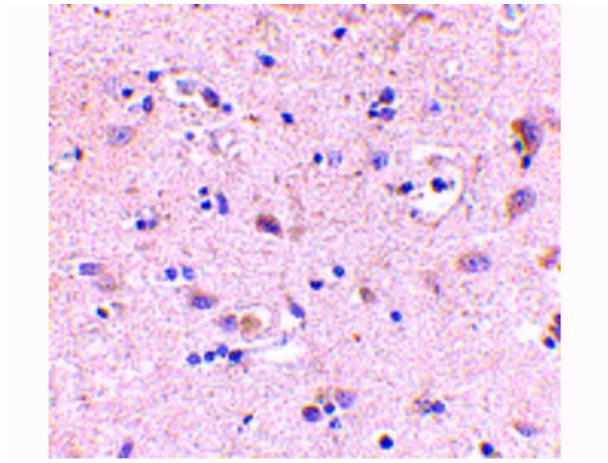
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

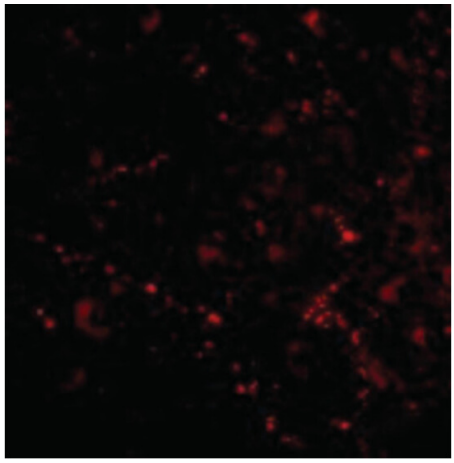
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

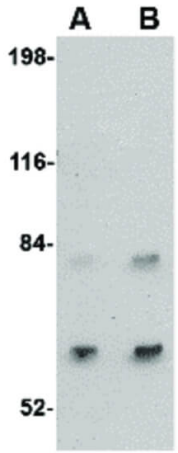
Images



Immunohistochemistry
Immunohistochemistry of SATB2 antibody. Tissue: Human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SATB2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SATB2 is nuclear and occasionally cytoplasmic. Staining: SATB2 as a precipitated red signal with hematoxylin purple nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of SATB2 antibody. Tissue: Human brain cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: SATB2 antibody at 50 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: SATB2 as a red fluorescent signal.



Western Blot
Western Blot of SATB2 antibody. Lane A: A20 cell lysate at 2 µg/mL. Lane B: A20 cell lysate at 4 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 72.2 kDa, ~80 kDa for SATB2. Other band(s): SATB2 splice variants and isoforms.

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Disclaimer

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