abcam

Product datasheet

Recombinant Human SAMHD1 protein ab153254

1 Image

Description

Product name	Recombinant Human SAMHD1 protein
Purity	>= 80 % Purified via GST Tag. Glutathione Sepharose
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MQRADSEQPSKRPRCDDSPRTPSNTPSAEADWSPGLEL HPDYKTWGPEQV CSFLRRGGFEEPVLLKNIRENEITGALLPCLDESRFENLGV SSLGERKKL LSYIQRLVQIHVDTMKVINDPIHGHIELHPLLVRIIDTPQFQRL RYIKQL GGGYYVFPGASHNRFEHSLGVGYLAGCLVHALGEKQPEL QISERDVLCVQ IAGLCHDLGHGPFSHMFDGRFIPLARPEVKWTHEQGSVM MFEHLINSNGI KPVMEQYGLIPEEDICFIKEQIVGPLESPVEDSLWPYKGRP ENKSFLYEI VSNKRNGIDVDKWDYFARDCHHLGIQNNFDYKRFIKFARV CEVDNELRIC ARDKEVGNLYDMFHTRNSLHRRAYQHKVGNIIDTMITDAFL KADDYIEIT GAGGKKYRISTAIDDMEAYTKLTDNIFLEILYSTDPKLKDAR EILKQIEY RNLFKYVGETQPTGQIKIKREDYESLPKEVASAKPKVLLDV KLKAEDFIV DVINMDYGMQEKNPIDHVSFYCKTAPNRAIRITKNQVSQLL PEKFAEQLI RVYCKKVDRKSLYAARQYFVQWCADRNFTKPQDGDVIAP LITPQKKEWND STSVQNPTRLREASKSRVQLFKDDPM
Predicted molecular weight	98 kDa
Amino acids	1 to 626

Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab153254** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA Western blot
Form	Liquid
Additional notes	

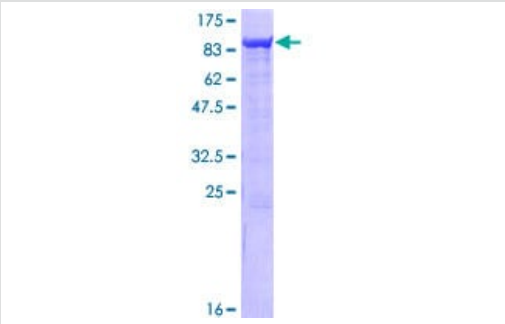
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	Putative nuclease involved in innate immune response by acting as a negative regulator of the cell-intrinsic antiviral response. May play a role in mediating proinflammatory responses to TNF-alpha signaling.
Tissue specificity	Expressed in heart, skeletal muscle, spleen, liver, small intestine, placenta, lung and peripheral blood leukocytes. No expression is seen in brain and thymus.
Involvement in disease	Defects in SAMHD1 are the cause of Aicardi-Goutieres syndrome type 5 (AGS5) [MIM:612952]. A form of Aicardi-Goutieres syndrome, a genetically heterogeneous disease characterized by cerebral atrophy, leukoencephalopathy, intracranial calcifications, chronic cerebrospinal fluid (CSF) lymphocytosis, increased CSF alpha-interferon, and negative serologic investigations for common prenatal infection. Clinical features as thrombocytopenia, hepatosplenomegaly and elevated hepatic transaminases along with intermittent fever may erroneously suggest an infective process. Severe neurological dysfunctions manifest in infancy as progressive microcephaly, spasticity, dystonic posturing and profound psychomotor retardation. Death often occurs in early childhood.
Sequence similarities	Belongs to the SAMHD1 family. Contains 1 HD domain. Contains 1 SAM (sterile alpha motif) domain.
Cellular localization	Nucleus.

Images



SDS-PAGE - Recombinant Human SAMHD1 protein (ab153254)

ab153254 on a 12.5% SDS-PAGE stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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