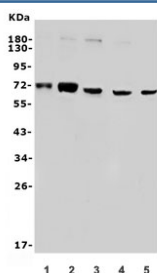


## SAMHD1 Antibody (RQ5761)

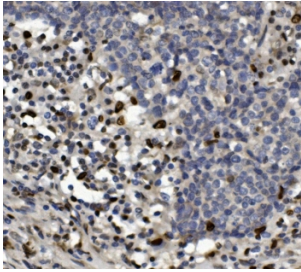
| Catalog No. | Formulation                                           | Size   |
|-------------|-------------------------------------------------------|--------|
| RQ5761      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

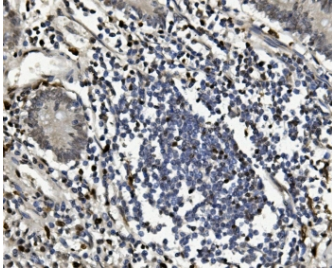
|                           |                                                                                                                                                                    |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                                                                                                                                  |
| <b>Species Reactivity</b> | Human, Mouse, Rat                                                                                                                                                  |
| <b>Format</b>             | Antigen affinity purified                                                                                                                                          |
| <b>Host</b>               | Rabbit                                                                                                                                                             |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                                                                                                                                         |
| <b>Isotype</b>            | Rabbit IgG                                                                                                                                                         |
| <b>Purity</b>             | Affinity purified                                                                                                                                                  |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide                                                                                                  |
| <b>UniProt</b>            | Q9Y3Z3                                                                                                                                                             |
| <b>Localization</b>       | Nuclear                                                                                                                                                            |
| <b>Applications</b>       | Western Blot : 0.5-1ug/ml<br>Immunohistochemistry : 2-5ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>Immunofluorescence : 5ug/ml<br>Direct ELISA : 0.1-0.5ug/ml |
| <b>Limitations</b>        | This SAMHD1 antibody is available for research use only.                                                                                                           |



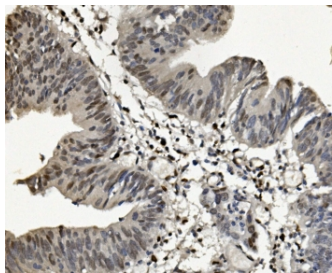
Western blot testing of human 1) HeLa, 2) HepG2, 3) K562, 4) Raji and 5) mouse NIH 3T3 lysate with SAMHD1 antibody. Predicted molecular weight ~72 kDa.



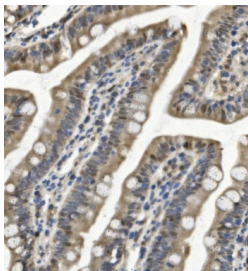
IHC staining of FFPE human lung cancer with SAMHD1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



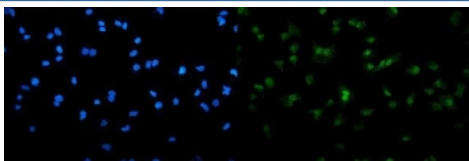
IHC staining of FFPE human rectal cancer with SAMHD1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



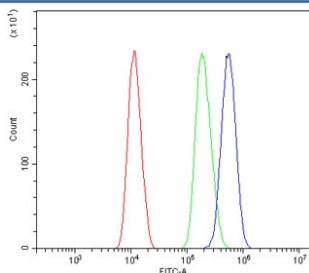
IHC staining of FFPE human rectal cancer with SAMHD1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat intestine with SAMHD1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human A549 cells with SAMHD1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human U-2 OS cells with SAMHD1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SAMHD1 antibody.

## Description

SAM domain and HD domain-containing protein 1 is a protein that in humans is encoded by the SAMHD1 gene. 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.

## **Application Notes**

Optimal dilution of the SAMHD1 antibody should be determined by the researcher.

## **Immunogen**

Recombinant human protein (amino acids E37-M626) was used as the immunogen for the SAMHD1 antibody.

## **Storage**

After reconstitution, the SAMHD1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.