

### Anti-SHMT2/SHMT antibody ab88664

★★★★☆ [2 Abreviews](#) [1 References](#) [4 Images](#)

#### Overview

<b>Product name</b>	Anti-SHMT2/SHMT antibody
<b>Description</b>	Mouse polyclonal to SHMT2/SHMT
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein within Human SHMT2/SHMT. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <b><a href="#">contact</a></b> our Scientific Support team to discuss your requirements. Database link: <b><a href="#">NP_005403.2</a></b>
<b>Positive control</b>	Human spleen tissue lysate. Hela cell lysate. SHMT2/SHMT transfected 293T cell lysate. HeLa cells.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.40 Constituent: 100% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab88664 in the following tested applications.

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

Application	Abreviews	Notes
WB	★★★★★ (2)	Use a concentration of 1 µg/ml. Predicted molecular weight: 56 kDa.
ICC/IF		Use a concentration of 10 µg/ml.

## Target

### Function

Contributes to the de novo mitochondrial thymidylate biosynthesis pathway. Required to prevent uracil accumulation in mtDNA. Interconversion of serine and glycine. Associates with mitochondrial DNA.

### Pathway

One-carbon metabolism; tetrahydrofolate interconversion.

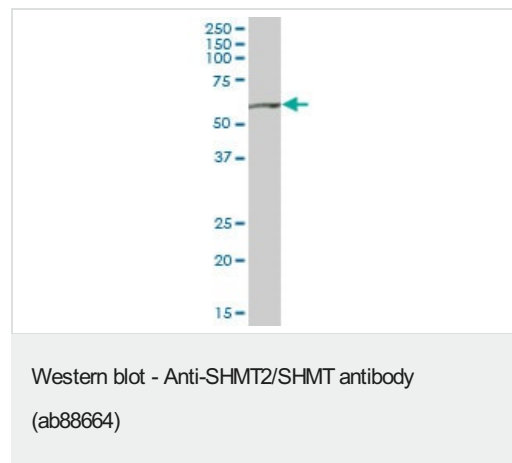
### Sequence similarities

Belongs to the SHMT family.

### Cellular localization

Mitochondrion. Mitochondrion matrix > mitochondrion nucleoid. Mitochondrion inner membrane.

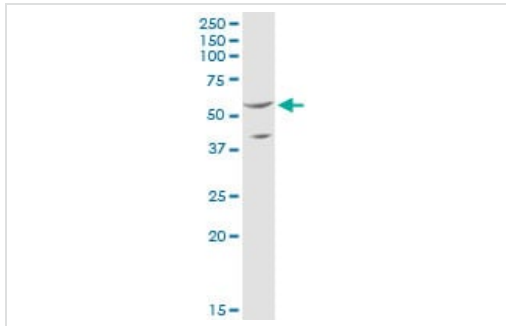
## Images



Anti-SHMT2/SHMT antibody (ab88664) at 1 µg/ml + human spleen tissue lysate at 50 µg

**Predicted band size:** 56 kDa

**Observed band size:** 56 kDa



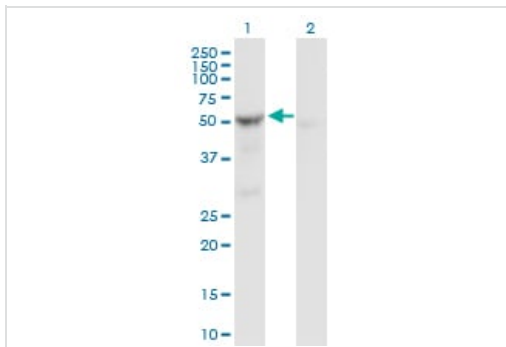
Western blot - Anti-SHMT2/SHMT antibody (ab88664)

Anti-SHMT2/SHMT antibody (ab88664) at 1 µg/ml + Hela cell lysate at 50 µg

**Predicted band size:** 56 kDa

**Observed band size:** 56 kDa

**Additional bands at:** 42 kDa. We are unsure as to the identity of these extra bands.



Western blot - Anti-SHMT2/SHMT antibody (ab88664)

**All lanes :** Anti-SHMT2/SHMT antibody (ab88664) at 1 µg/ml

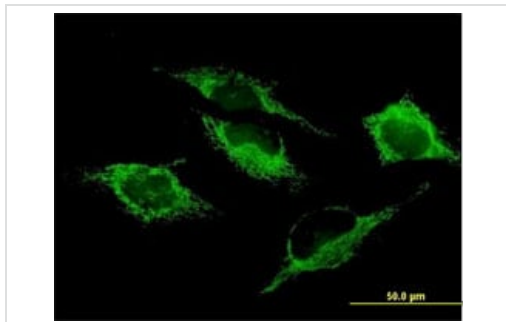
**Lane 1 :** SHMT2/SHMT transfected 293T cell lysate

**Lane 2 :** Non transfected 293T cell lysate

Lysates/proteins at 25 µg per lane.

**Predicted band size:** 56 kDa

**Observed band size:** 50 kDa



Immunocytochemistry/ Immunofluorescence - Anti-SHMT2/SHMT antibody (ab88664)

ab88664, at 10 µg/ml, staining SHMT2/SHMT in Hela cells by Immunofluorescence.

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

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