

Product datasheet

Anti-Cystathionase/CTH antibody ab151769

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Overview

Product name	Anti-Cystathionase/CTH antibody
Description	Rabbit polyclonal to Cystathionase/CTH
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment corresponding to Human Cystathionase/CTH aa 194-405. Database link: P32929
Positive control	HeLa, MOLT4 and mouse liver whole cell lysates, hepatoma tissue
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab151769 in the following tested applications.

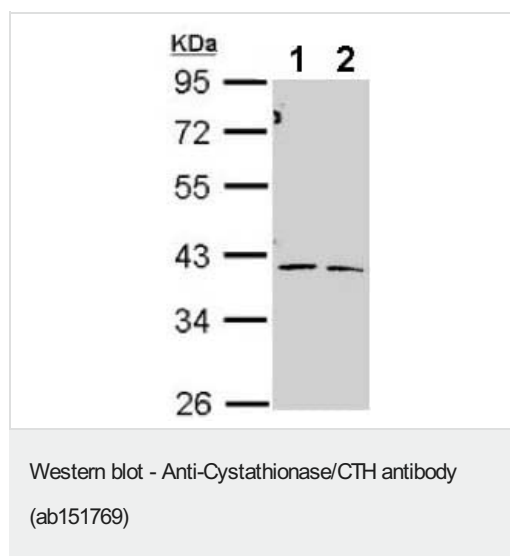
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 45 kDa.
IHC-P		1/100 - 1/1000.

Target

Function	Catalyzes the last step in the transsulfuration pathway from methionine to cysteine. Has broad substrate specificity. Converts cystathionine to cysteine, ammonia and 2-oxobutanoate. Converts two cysteine molecules to lanthionine and hydrogen sulfide. Can also accept homocysteine as substrate. Specificity depends on the levels of the endogenous substrates. Generates the endogenous signaling molecule hydrogen sulfide (H ₂ S), and so contributes to the regulation of blood pressure.
Pathway	Amino-acid biosynthesis; L-cysteine biosynthesis; L-cysteine from L-homocysteine and L-serine: step 2/2.
Involvement in disease	Defects in CTH are the cause of cystathioninuria (CSTNU) [MIM:219500]. It is an autosomal recessive phenotype characterized by abnormal accumulation of plasma cystathionine, leading to increased urinary excretion.
Sequence similarities	Belongs to the trans-sulfuration enzymes family.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Cytoplasm.

Images



All lanes : Anti-Cystathionase/CTH antibody (ab151769) at 1/1000 dilution

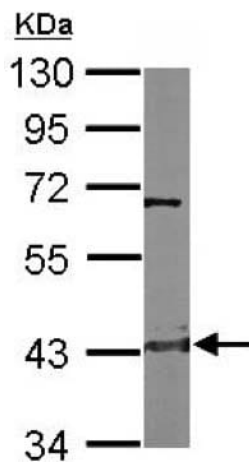
Lane 1 : HeLa whole cell lysate

Lane 2 : MOLT4 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 45 kDa

10% SDS PAGE

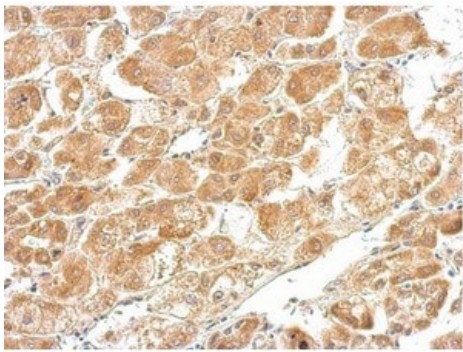


Western blot - Anti-Cystathionase/CTH antibody (ab151769)

Anti-Cystathionase/CTH antibody (ab151769) at 1/1000 dilution +
 Mouse liver whole cell lysate at 50 µg

Predicted band size: 45 kDa

10% SDS PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cystathionase/CTH antibody (ab151769)

Immunohistochemical analysis of paraffin embedded human hepatoma tissue labeling Cystathionase/CTH with ab151769 antibody at 1/500.

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

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