### Overview

**Product name**
Anti-Cystathionase antibody

**Description**
Rabbit polyclonal to Cystathionase

**Host species**
Rabbit

**Tested applications**
Suitable for: WB, IHC-P

**Species reactivity**
Reacts with: Mouse, Human

**Immunogen**
Recombinant fragment, corresponding to a region within amino acids 194-405 of Human Cystathionase (UniProt: P32929).

**Positive control**
HeLa, MOLT4 and mouse liver whole cell lysates, hepatoma tissue

### 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: 0.01% Thimerosal (merthiolate)
- Constituents: 0.75% Glycine, 1.21% Tris, 10% Glycerol

**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

### Applications

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>1/500 - 1/3000. Predicted molecular weight: 45 kDa.</td>
<td></td>
</tr>
<tr>
<td>IHC-P</td>
<td>1/100 - 1/1000.</td>
<td></td>
</tr>
<tr>
<td><strong>Target</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td><strong>Function</strong></td>
<td>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 (H2S), and so contributes to the regulation of blood pressure.</td>
<td></td>
</tr>
<tr>
<td><strong>Pathway</strong></td>
<td>Amino-acid biosynthesis; L-cysteine biosynthesis; L-cysteine from L-homocysteine and L-serine: step 2/2.</td>
<td></td>
</tr>
<tr>
<td><strong>Involvement in disease</strong></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td><strong>Sequence similarities</strong></td>
<td>Belongs to the trans-sulfuration enzymes family.</td>
<td></td>
</tr>
<tr>
<td><strong>Post-translational modifications</strong></td>
<td>Phosphorylated upon DNA damage, probably by ATM or ATR.</td>
<td></td>
</tr>
<tr>
<td><strong>Cellular localization</strong></td>
<td>Cytoplasm.</td>
<td></td>
</tr>
</tbody>
</table>

**Images**

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

**Predicted band size:** 45 kDa

10% SDS PAGE

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

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"
• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors