antibodies -online.com





anti-CTH antibody

Images



Publication



Go to Product page

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|--------|----------------------------|------|---------------|
| | $ \backslash / \square $ | r\/I | $\triangle V$ |

| Quantity: | 100 μL |
|--------------|--|
| Target: | СТН |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CTH antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

Product Details

| Immunogen: | KLH conjugated synthetic peptide derived from human Cystathionine gamma lyase |
|-------------------|---|
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: | Purified by Protein A. |

Target Details

| Target: | CTH |
|-------------------|--|
| Alternative Name: | CTH (CTH Products) |
| Background: | Synonyms: CGL_HUMAN, CTH, Cystathionine gamma lyase, Cystathionine gamma-lyase, Cysteine desulfhydrase, Gamma cystathionase, Gamma-cystathionase, Homoserine |
| | deaminase, Homoserine dehydratase, MGC9471, CSE, Cystathionase. |

Background: 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. Defects in CTH are the cause of cystathioninuria (CSTNU). It is an autosomal recessive phenotype characterized by abnormal accumulation of plasma cystathionine, leading to increased urinary excretion.

Gene ID:

1491

Pathways:

ER-Nucleus Signaling, Warburg Effect

Application Details

Application Notes:

WB 1:300-5000

IHC-P 1:200-400

IF(IHC-P) 1:50-200

Restrictions:

For Research Use only

Handling

| Format: | Liquid |
|---------|--------|
| | |

1 μg/μL

Concentration:

Buffer:

0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative:

ProClin

Precaution of Use:

This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

handled by trained staff only.

Storage:

4 °C,-20 °C

Storage Comment:

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date:

12 months

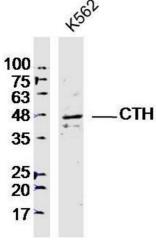
Publications

Product cited in:

Shiina, Shima, Horii, Naitou, Nakamori, Sano, Shimizu: "Inhibitory action of hydrogen sulfide on esophageal striated muscle motility in rats." in: **European journal of pharmacology**, Vol. 771,

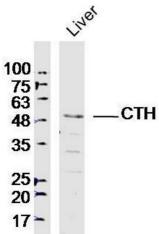
pp. 123-9, (2016) (PubMed).

Images



Western Blotting

Image 1. Lane 1: K562 lysates probed with CTH Polyclonal Antibody, Unconjugated at 1:300 overnight at 4°C. Followed by a conjugated secondary antibody at 1:20000 for 60 min at 37°C.



Western Blotting

Image 2. Lane 1: Mouse liver lysates probed with CTH Polyclonal Antibody, Unconjugated at 1:300 overnight at 4°C. Followed by a conjugated secondary antibody at 1:20000 for 60 min at 37°C.