

## Anti-Cystathionase/CTH Antibody Picoband®

Catalog Number: PB9494

### About CTH

Cystathionine gamma-lyase (or cystathionase) is an enzyme which breaks down cystathionine into cysteine and alpha-ketobutyrate. The International Radiation Hybrid Mapping Consortium mapped the CTH gene to chromosome 1. The CTH gene had earlier been assigned to chromosome 16 by study of somatic cell hybrids. It is demonstrated that hydrogen sulfide (H<sub>2</sub>S) is physiologically generated by CTH.

### Overview

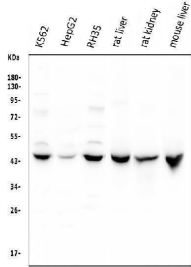
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|----------------------|--|
| Product Name         | Anti-Cystathionase/CTH Antibody Picoband®  |
| Reactive Species     | Human, Mouse, Rat  |
| Description          | Boster Bio Anti-Cystathionase/CTH Antibody Picoband® catalog # PB9494. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.   |
| Application          | WB   |
| Clonality            | Polyclonal   |
| Formulation          | Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , and 0.05 mg NaN <sub>3</sub> .<br>*This antibody is supplied in a stabilized formulation.<br>Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.  |
| Host                 | Rabbit   |
| Uniprot ID           | P32929   |

### Technical Details

|                               |   |
|-------------------------------|---|
| Immunogen                     | E.coli-derived human Cystathionase recombinant protein (Position: D181-H398). Human Cystathionase shares 85.8% amino acid (aa) sequence identity with both mouse and rat Cystathionase. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.   |
| Cross Reactivity              | No cross-reactivity with other proteins   |

|                     |   |
|---------------------|---|
| Isotype             | Rabbit IgG  |
| Form                | Lyophilized   |
| Concentration       | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification        | Immunogen affinity purified.  |
| Suggested Dilutions | Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat                             |

## Anti-Cystathionase/CTH Antibody Picoband® (PB9494) Images



Western blot analysis of Cystathionase using anti-Cystathionase antibody (PB9494). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. lane 1: K562 whole cell lysates, lane 2: HepG2 whole cell lysates, lane 3: RH35 whole cell lysates, lane 4: rat liver tissue lysates, lane 5: rat kidney tissue lysates, lane 6: mouse liver tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Cystathionase antigen affinity purified polyclonal antibody (Catalog # PB9494) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Cystathionase at approximately 45KD. The expected band size for Cystathionase is at 45KD.

## 6 Publications Citing This Product

1. PubMed ID: 33649809, Nie L,Liu M,Chen J,Wu Q,Li Y,Yi J,Zheng X,Zhang J,Chu C,Yang J.Hydrogen sulfide ameliorates doxorubicin-induced myocardial fibrosis in rats via the PI3K/AKT/mTOR pathway.Mol Med Rep.2021 Apr;23(4):299.doi:10.3892/mmr.2021.11938.Epub 2021 Mar 2.PMID:336498
2. PubMed ID: 26378818, Caffeic Acid Phenethyl Ester inhibit Hepatic Fibrosis by Nitric Oxide Synthase and Cystathionine Gamma-Lyase in Rats
3. PubMed ID: 29393353, Hydrogen sulfide attenuates myocardial fibrosis in diabetic rats through the JAK/STAT signaling pathway

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Anti-Cystathionase/CTH Antibody

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