bs-9515R **[Primary Antibody]**

CTH Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1491 **SWISS:** P32929

Target: CTH

Immunogen: KLH conjugated synthetic peptide derived from human CTH/CSE/Cystathionase: 51-150/405.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

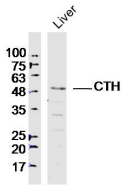
Applications: **WB** (1:500-2000)
Flow-Cyt (2ug/Test)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Cow, Dog)

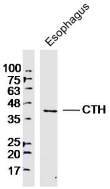
Predicted MW.: 45 kDa

Subcellular Location: Cytoplasm

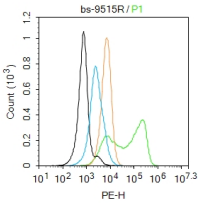
VALIDATION IMAGES



Sample:Liver (Mouse) Lysate at 40 ug Primary: Anti-CTH (bs-9515R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45kD Observed band size: 48 kD



Sample:Esophagus (Mouse) Lysate at 40 ug Primary: Anti-CTH (bs-9515R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45kD Observed band size: 45 kD



Blank control:U937. Primary Antibody (green line): Rabbit Anti-CTH antibody (bs-9515R) Dilution: 2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=9.8]** Xiaoyan Zheng. et al. Novel findings from arsenic-lead combined exposure in mouse testicular TM4 Sertoli cells

based on transcriptomics. SCI TOTAL ENVIRON. 2023 Dec;:169611 WB ;Mouse. 38157908

- **[IF=5.81]** Heng-Jing Hu. et al. Hydrogen Sulfide Ameliorates Angiotensin II-Induced Atrial Fibrosis Progression to Atrial Fibrillation Through Inhibition of the Warburg Effect and Endoplasmic Reticulum Stress. Front Pharmacol. 2021 Dec 7;12:690371 WB ;Mouse,Rat. 34950023
- **[IF=4.8]** Mengjun Huang. et al.Integrated bioinformatics and multi-omics to investigate the mechanism of Rhododendron molle Flos-induced hepatotoxicity.journal of ethnopharmacology.2025 Feb 11:341:119308. Western Blot ;Rat. 39746411
- **[IF=4.9]** Bao Yuan. et al. Exploring the Mechanism of H2S Synthesis in Male Bactrian Camel Poll Glands Based on Data Independent Acquisition Proteomics and Non-Targeted Metabolomics. INT J MOL SCI. 2024 Jul; 25(14): 7700 WB,IHC,IF ;Camel. 39062942
- **[IF=4.8]** Qiang Ran. et al. Integrated bioinformatics and multi-omics to investigate the mechanism of Rhododendron molle Flos-induced hepatotoxicity. J ETHNOPHARMACOL. 2024 Dec;:119308 WB ;Rat. 39746411