BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-CBS Antibody (Center)

Catalog Number: A00130-2

About CBS

CBS acts as a homotetramer to catalyze the conversion of homocysteine to cystathionine, the first step in the transsulfuration pathway. This protein is allosterically activated by adenosyl-methionine and uses pyridoxal phosphate as a cofactor. Defects in this gene can cause cystathionine beta-synthase deficiency (CBSD), which can lead to homocystinuria.

Overview

Product Name	Anti-CBS Antibody (Center)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CBS Antibody (Center) (Catalog # A00130-2). Tested in WB, IHC-P-Leica, Flow Cytometry, IF application(s). This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, WB, IHC-P-Leica
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P35520

Technical Details

Immunogen	This CBS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 301-330 amino acids from the Central region of human CBS.
Predicted Reactive Species	Monkey
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

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	kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1:2000 IF: 1:25 IHC-P-Leica: 1:500 FC: 1:25

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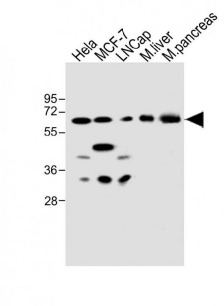
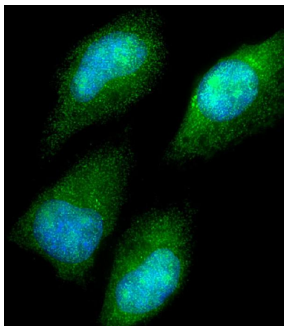
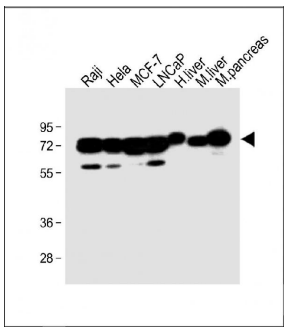
Anti-CBS Antibody (Center) (A00130-2) Images



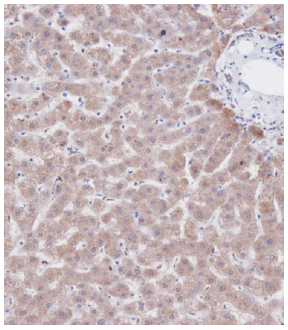
All lanes : Anti-CBS Antibody (Center) at 1:500 dilution
Lane 1: Hela whole cell lysate
Lane 2: MCF-7 whole cell lysate
Lane 3: LNCap whole cell lysate
Lane 4: mouse liver lysate
Lane 5: mouse pancreas lysate
Lysates/proteins at 20 µg per lane.
Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 61 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling CBS with A00130-2 at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm and nucleus staining on HeLa cell line. The nuclear counter stain is DAPI (blue).



All lanes : Anti-CBS Antibody (Center) at 1:2000 dilution
Lane 1: Raji whole cell lysate
Lane 2: Hela whole cell lysate
Lane 3: MCF-7 whole cell lysate
Lane 4: LNCaP whole cell lysate
Lane 5: Human liver lysate
Lane 6: Mouse liver lysate
Lane 7: Mouse pancreas lysate
Lysates/proteins at 20 µg per lane.
Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 61 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of A00130-2 on paraffin-embedded Human liver tissue was performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 15min at room temperature. Leica Bond Polymer Refine Detection was used as the secondary antibody.

Immunohistochemical analysis of A00130-2 on paraffin-

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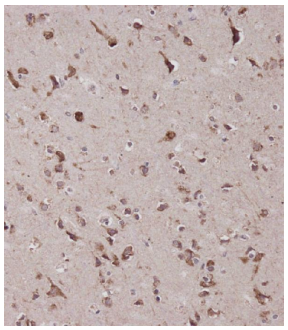

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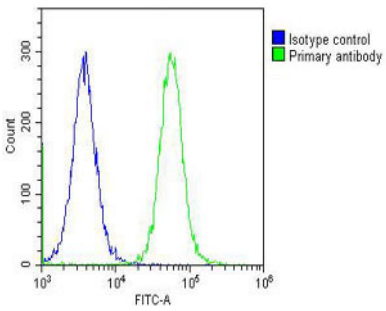

Overlay histogram showing Hela cells stained with A00130-2 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (A00130-2, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG (1g/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

Anti-CBS Antibody (Center)