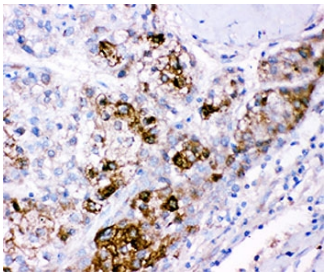
CBS Antibody / Cystathionine Beta Synthase (R30143)

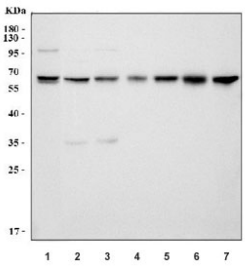
Catalog No.	Formulation	Size
R30143	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	875
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml
Limitations	This CBS antibody is available for research use only.



IHC staining of FFPE human liver cancer tissue with CBS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) human 293T, 3) human K562, 4) rat liver, 5) rat pancreas, 6) mouse liver and 7) mouse pancreas tissue lysate with CBS antibody. Predicted molecular weight ~61 kDa.

Description

Cystathionine-beta-synthase is an enzyme that in humans is encoded by the CBS gene. It is mapped to 21q22.3 and contains 23 exons, ranging in size from 42 to 299 bp. CBS catalyzes the first step of the transsulfuration pathway, from homocysteine to cystathionine. It uses the cofactor pyridoxal-phosphate (PLP) and can be allosterically regulated by effectors such as the ubiquitous cofactor S-adenosyl-L-methionine (adoMet). This enzyme belongs to the family of lyases, to be specific, the hydro-lyases, which cleave carbon-oxygen bonds. It is a multidomain enzyme composed of an N-terminal enzymatic domain and two CBS domains. The gene is the most common locus for mutations associated with homocystinuria.

Application Notes

The stated application concentrations are suggested starting points. Titration of the CBS antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 331-551) was used as the immunogen for this CBS antibody.

Storage

After reconstitution, the CBS antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.