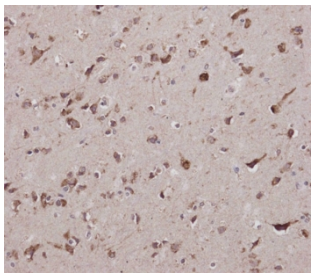
CBS Antibody / Cystathionine Beta Synthase (F54306)

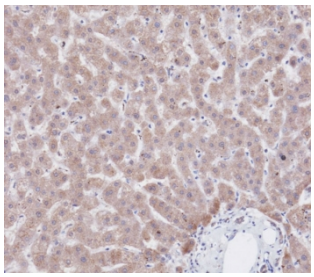
Catalog No.	Formulation	Size
F54306-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54306-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

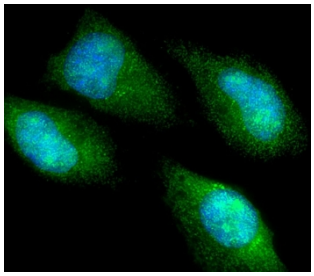
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P35520
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:25 Immunofluorescence : 1:25 Flow Cytometry : 1:25 (1x10e6 cells)
Limitations	This CBS antibody is available for research use only.



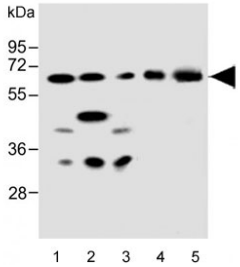
IHC testing of FFPE human brain tissue with CBS antibody. HIER: steam section in pH9 EDTA for 20 min and allow to cool prior to staining.



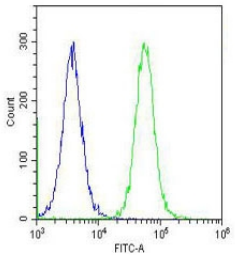
IHC testing of FFPE human liver tissue with CBS antibody. HIER: steam section in pH9 EDTA for 20 min and allow to cool prior to staining.



Immunofluorescent staining of fixed and permeabilized human HeLa cells with CBS antibody (green) and DAPI nuclear stain (blue).



Western blot testing of human 1) Raji, 2) HeLa, 3) MCF7, 4) LNCaP, 5) human liver, 6) mouse liver and 7) mouse pancreas lysate with CBS antibody. Predicted molecular weight ~61 kDa.



Flow cytometry testing of fixed and permeabilized human HeLa cells with CBS antibody; Blue=isotype control, Green= CBS antibody.

Description

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.

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

A portion of amino acids 301-330 from the human protein were used as the immunogen for the CBS antibody.

Storage

Aliquot the CBS antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.