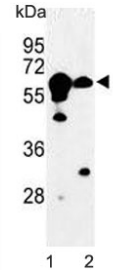
Cystathionine Beta Synthase Antibody / CBS (F54436)

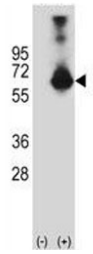
Catalog No.	Formulation	Size
F54436-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54436-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

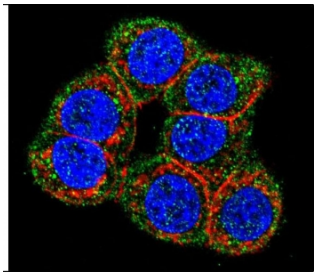
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P35520
Localization	Nuclear, cytoplasmic
Applications	Immunofluorescence: 1:25 Western blot: 1:500-1:2000 Flow cytometry: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



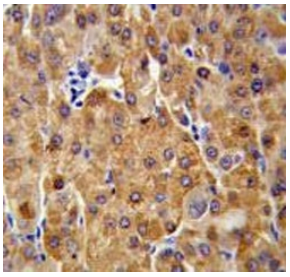
Western blot testing of 1) mouse kidney and 2) human Ramos lysate with Cystathionine Beta Synthase antibody. Predicted molecular weight ~61 kDa.



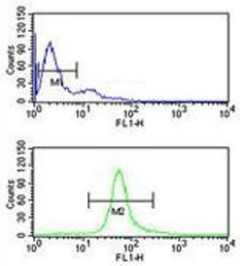
Western blot testing of 1) non-transfected and 2) transfected 293 cell lysate with Cystathionine Beta Synthase antibody.



Immunofluorescent staining of human HEK293 cells with Cystathionine Beta Synthase antibody (green), DAPI nuclear stain (blue) and anti-Actin (red).



IHC testing of FFPE human hepatocarcinoma tissue with Cystathionine Beta Synthase antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of human Ramos cells with Cystathionine Beta Synthase antibody; Blue=isotype control, Green= Cystathionine Beta Synthase 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 Cystathionine Beta Synthase antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 104-133 from the human protein was used as the immunogen for the Cystathionine Beta Synthase antibody.

Storage

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

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