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CSTB Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14355c

Specification

CSTB Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P04080
Other Accession	P35478, P25417, NP_000091.1, Q10994
Reactivity	**Human**
Predicted	**Bovine, Sheep**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**11140**
Antigen Region	**10-39**

CSTB Antibody (Center) - Additional Information

Gene ID 1476

Other Names
Cystatin-B, CPI-B, Liver thiol proteinase inhibitor, Stefin-B, CSTB, CST6, STFB

Target/Specificity
This CSTB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 10-39 amino acids from the Central region of human CSTB.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
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.

Precautions
CSTB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CSTB Antibody (Center) - Protein Information

Name CSTB

Synonyms CST6, STFB

Function This is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B.

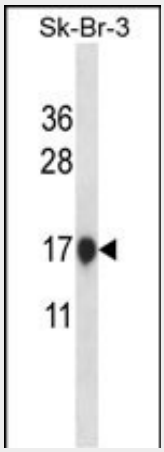
Cellular Location
Cytoplasm. Nucleus

CSTB Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CSTB Antibody (Center) - Images



CSTB Antibody (Center) (Cat. #AP14355c) western blot analysis in SK-BR-3 cell line lysates (35ug/lane).This demonstrates the CSTB antibody detected the CSTB protein (arrow).

CSTB Antibody (Center) - Background

The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and kininogens. This gene encodes a stefin that functions as an intracellular thiol protease inhibitor. The protein is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins l, h and b. The protein is thought to play a role in protecting against the proteases leaking from lysosomes. Evidence indicates that mutations in this gene are responsible for the primary defects in patients with progressive

myoclonic epilepsy (EPM1).

CSTB Antibody (Center) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Ceru, S., et al. J. Biol. Chem. 285(13):10078-10086(2010)
Skerget, K., et al. J. Biol. Chem. 285(5):3201-3210(2010)
Ceru, S., et al. Biol. Cell 102(6):319-334(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)