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CSTB Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14355c

Product Information

Application	WB, E
Primary Accession	P04080
Other Accession	P35478, P25417, NP_000091.1
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34048
Calculated MW	11140
Antigen Region	10-39

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.

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

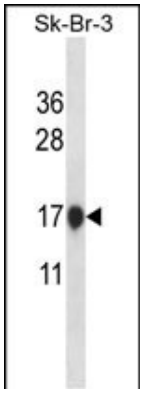
Background

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).

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)

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).