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CSTA Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14350b

Product Information

Application	WB, IHC-P, E
Primary Accession	P01040
Other Accession	NP_005204.1
Reactivity	Human
Predicted	Mouse, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33915
Calculated MW	11006
Antigen Region	69-98

Additional Information

Gene ID	1475
Other Names	Cystatin-A, Cystatin-AS, Stefin-A, Cystatin-A, N-terminally processed, CSTA, STF1, STFA
Target/Specificity	This CSTA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 69-98 amino acids from the C-terminal region of human CSTA.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	CSTA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CSTA
Synonyms	STF1, STFA

Function	This is an intracellular thiol proteinase inhibitor. Has an important role in desmosome-mediated cell-cell adhesion in the lower levels of the epidermis.
Cellular Location	Cytoplasm.
Tissue Location	Expressed in the skin throughout the epidermis.

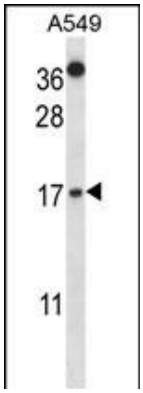
Background

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 a cysteine protease inhibitor, forming tight complexes with papain and the cathepsins B, H, and L. The protein is one of the precursor proteins of cornified cell envelope in keratinocytes and plays a role in epidermal development and maintenance. Stefins have been proposed as prognostic and diagnostic tools for cancer.

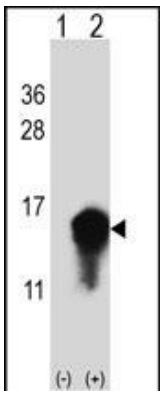
References

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Takai, T., et al. J. Immunol. 183(12):7958-7965(2009)
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Images

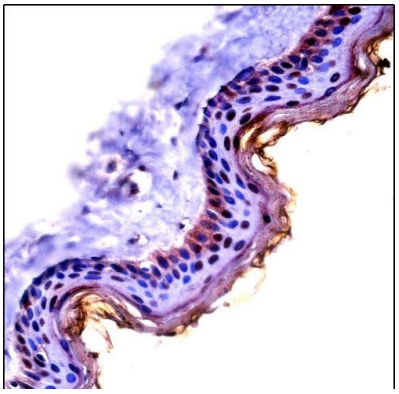


CSTA Antibody (C-term) (Cat. #AP14350b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the CSTA antibody detected the CSTA protein (arrow).



Western blot analysis of CSTA (arrow) using rabbit polyclonal CSTA Antibody (C-term) (Cat. #AP14350b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CSTA gene.

CSTA Antibody (C-term) (AP14350b)immunohistochemistry analysis in formalin fixed and paraffin embedded human skin tissue followed



by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CSTA Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.