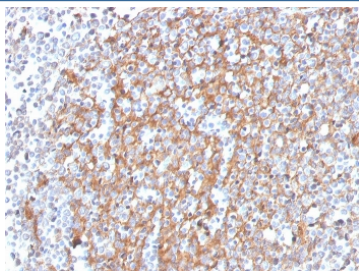


Cystatin A Antibody / CSTA [clone CSTA/3553] (V8533)

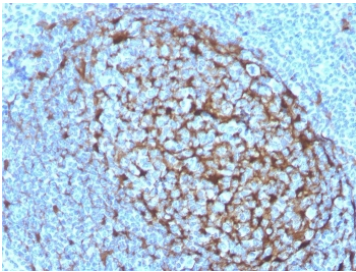
Catalog No.	Formulation	Size
V8533-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8533-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8533SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

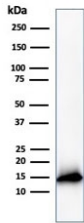
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CSTA/3553
Purity	Protein G affinity chromatography
UniProt	P01040
Localization	Cell surface, cytoplasmic, nuclear
Applications	Western Blot : 2-4ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This Cystatin A antibody is available for research use only.



IHC staining of FFPE human prostate with Cystatin A antibody (clone CSTA/3553).
HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

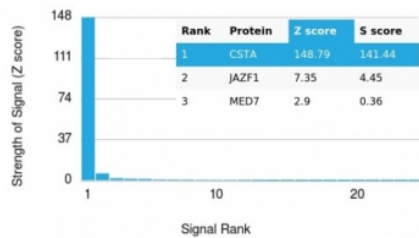


IHC staining of FFPE human tonsil with Cystatin A antibody (clone CSTA/3553). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

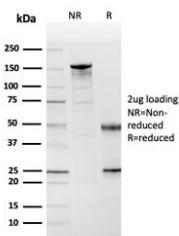


Western blot testing of human ThP1 cell lysate with Cystatin A antibody. Predicted molecular weight ~11 kDa.

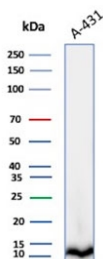
Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Cystatin A antibody (clone CSTA/3553). These results demonstrate the foremost specificity of the CSTA/3553 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Cystatin A antibody (clone CSTA/3553) as confirmation of integrity and purity.



Western blot testing of human A431 cell lysate with Cystatin A antibody. Predicted molecular weight ~11 kDa.

Description

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.

Application Notes

Optimal dilution of the Cystatin A antibody should be determined by the researcher.

Immunogen

A portion of amino acids 1-98 from the human protein was used as the immunogen for the Cystatin A antibody.

Storage

Store the Cystatin A antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).