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Datasheet for ABIN6939197 anti-CSTA antibody (AA 1-98)

3 Images



Overview

Quantity:	100 µg
Target:	CSTA
Binding Specificity:	AA 1-98
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CSTA antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment of human CSTA protein (around aa 1-98) (exact sequence is proprietary)
Clone:	CSTA-2882
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	CSTA
Alternative Name:	CSTA (CSTA Products)
Background:	The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences.

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Target Details

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.

Molecular Weight:	11kDa
Gene ID:	1475
UniProt:	P01040
Pathways:	Response to Water Deprivation

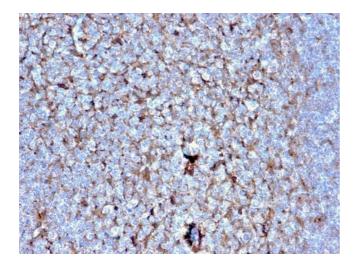
Application Details

Application Notes:	Positive Control: Human tonsil or prostate tissue (IHC).
	Known Application: Immunohistochemistry (Formalin-fixed) (0.5-1 μ g/mL for 30 min at
	RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate
	Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a
	specific application should be determined.
Restrictions:	For Research Use only

Handling

Concentration:	200 μg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

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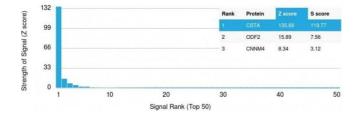


Immunohistochemistry

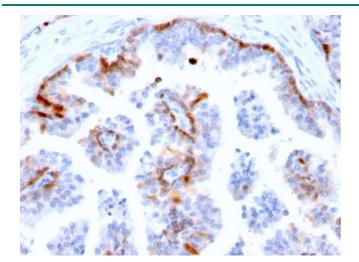
Image 1. Formalin-fixed, paraffin-embedded human Tonsil stained with Cystatin A Mouse Monoclonal Antibody (CSTA/2882).

Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Cystatin A Mouse Monoclonal Antibody (CSTA/2882). Z- and S- Score: The Zscore represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Zscore, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



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Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Prostate stained with Cystatin A Mouse Monoclonal Antibody (CSTA/2882).

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