Datasheet for ABIN2782349

anti-CSTB antibody (Middle Region)

3 Images

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Overview

Quantity:	100 µL
Target:	CSTB
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Mouse, Pig, Horse, Dog, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CSTB antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human CSTB
Sequence:	AGTNYFIKVH VGDEDFVHLR VFQSLPHENK PLTLSNYQTN KAKHDELTYF
Predicted Reactivity:	Dog: 92%, Horse: 85%, Human: 100%, Mouse: 83%, Pig: 79%, Rabbit: 77%, Rat: 79%
Characteristics:	This is a rabbit polyclonal antibody against CSTB. It was validated on Western Blot and immunohistochemistry.
Purification:	Affinity Purified

Target Details

Target:	CSTB
Alternative Name:	CSTB (CSTB Products)

Target Details

Background:	CSTB is 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 CSTB gene are responsible for the primary defects in patients with progressive myoclonic epilepsy 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.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). Alias Symbols: CST6, EPM1, PME, STFB, ULD, EPM1A Protein Interaction Partner: UBC, SARNP, DPP7, BAG3, CFTR, ECT2, SEC24A, NUDC, MAT2A, FLNB, DCUN1D1, CUL3, RAD21, SPRY2, CTSL, CTSD, CTSH, CTSB, CST3, VHL, Protein Size: 98
Molecular Weight:	11 kDa
Gene ID:	1476
NCBI Accession:	NM_000100, NP_000091
UniProt:	P04080
Pathways:	Response to Water Deprivation

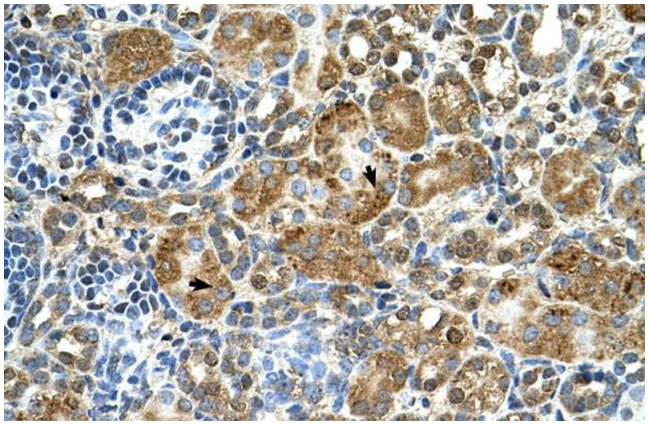
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 98 AA
Restrictions:	For Research Use only

Handling

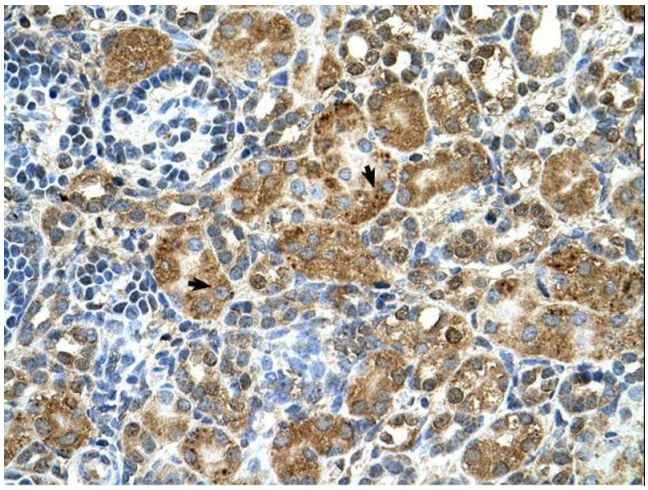
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



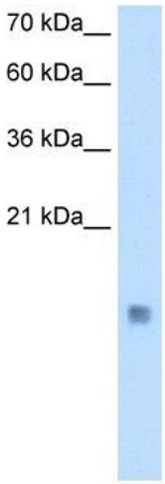
Immunohistochemistry

Image 1. Human kidney



Immunohistochemistry

Image 2.



Western Blotting

Image 3. CSTB antibody - middle region validated by WB using Transfected 293T cell lysate at 0.25ug/ml.